



Hewlett Packard
Enterprise

HPE Comware 7

NETCONF XML API Reference

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ACL

ACL/Groups

This table contains ACL information.

XML structure

```
<ACL>
  <Groups>
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <CountClear></CountClear>
    </Group>
  </Groups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type.	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—MAC. • 4—User-defined.	N/A
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 5999.	The value range depends on the GroupType column. • 2000 to 5999 if GroupType is 1. • 2000 to 3999 if GroupType is 2.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/NamedGroups

This table contains named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
      <GroupIndex></GroupIndex>
      <CountClear></CountClear>
    </Group>
  </NamedGroups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type.	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—MAC. • 4—User-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all . The value range depends on the GroupType column. 2000 to 3999 if GroupType is 1. 2000 to 3999 if GroupType is 2. 4000 to 4999 if GroupType is 3. 5000 to 5999 if GroupType is 4.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/PfilterApply

This table contains packet filter application information.

XML structure

```

<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <CountClear></CountClear>
    </Pfilter>
  </PfilterApply>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAcIType	ACL type.	Index	Enumeration: 1—IPv4. 2—IPv6. 3—Ethernet frame header ACL. 4—User-defined ACL. 5—ACL with the default action.	Type 5 is a special ACL.
AppAcIGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all . The value range depends on the AppAcIType column. 2000 to 3999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2. 4000 to 4999 if AppAcIType is 3. 5000 to 5999 if AppAcIType is 4. 0 if AppAcIType is 5.
CountClear	Resets counters.	N/A	This column must be empty.	N/A

ACL/ZonePairPfilterApply

This table contains packet filter application information for zone-pair.

XML structure

```
<ACL>
  <ZonePairPfilterApply>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AcIType></AcIType>
      <AcIGroup></AcIGroup>
      <Clear></Clear>
    </Pfilter>
  </ZonePairPfilterApply>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
AcIType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AcIGroup	ACL name or number.	Index	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. 2000 to 5999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

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Table description	64
Columns	64

ACL

ACL/Groups

This table contains ACL information.

XML structure

```
<ACL>
  <Groups>
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
    </Group>
  </Groups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—MAC. • 4—User-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number	Index	Unsigned integer. Value range: 2000 to 5999.	The value range depends on the GroupType column. 2000 to 5999 if GroupType is 1. - IPv4 basic ACL: 2000 to 2999. - IPv4 advanced ACL: 3000 to 3999. - Ethernet frame header ACL: 4000 to 4999. - User-defined ACL: 5000 to 5999. 2000 to 3999 if GroupType is 2. - IPv6 basic ACL: 2000 to 2999. - IPv6 advanced ACL: 3000 to 3999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: 1—Config (default). In this order, rules are sorted in ascending order of rule ID. 2—Auto. In this order, rules are sorted in depth-first order.	The match order can only be modified for ACLs that do not contain any rules. The match order can only be config for user-defined ACLs.
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	The rule numbering step for user-defined ACLs can only be 5.
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Name is not supported for number ACL, and it will be ignored if specified.
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.

ACL/NamedGroups

This table contains named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
```



```

    <GroupCategory></GroupCategory>
    <GroupIndex></GroupIndex>
    <MatchOrder></MatchOrder>
    <Step></Step>
    <Description></Description>
  </Group>
</NamedGroups>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—MAC. • 4—User-defined.	N/A
GroupCategory	ACL Category	Index	Enumeration: • 0—invalid. • 1—basic. • 2—advanced.	The value range depends on the GroupType column. • 1 to 2 if GroupType is 1 or 2. ◦ basic ACL: 1. ◦ advanced ACL: 2. • 0 if GroupType is 3 or 4.
GroupIndex	ACL name or number	Index	String. Length: 1 to 63 characters. • ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: String of digits in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all . The value range depends on the GroupType column. • 2000 to 3999 if GroupType is 1. ◦ IPv4 basic ACL: 2000 to 2999. ◦ IPv4 advanced ACL: 3000 to 3999. • 2000 to 3999 if GroupType is 2. ◦ IPv6 basic ACL: 2000 to 2999. ◦ IPv6 advanced ACL: 3000 to 3999.

Column name	Column description	Column type	Data type and restrictions	Remarks
				4000 to 4999 if GroupType is 3. - Ethernet frame header ACL: 4000 to 4999. 5000 to 5999 if GroupType is 4. User-defined ACL: 5000 to 5999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: 1—Config (default). In this order, rules are sorted in ascending order of rule ID. 2—Auto. In this order, rules are sorted in depth-first order.	The match order can only be modified for ACLs that do not contain any rules. The match order can only be config for user-defined ACLs.
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	The rule numbering step for user-defined ACLs can only be 5.
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.

ACL/Intervals

This table contains ACL interval information.

XML structure

```

<ACL>
  <Intervals>
    <Interval>
      <IntervalType></IntervalType>
      <IntervalValue></IntervalValue>
    </Interval>
  </Intervals>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	Intervals
Table type	Multi-instance table
Row name	Interval

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalType	The type of the interval	Index	Enumeration: 1—logging. 2—trap.	The type of the interval specified for generating packet filtering logs or traps. You cannot create, merge, or replace an interval when there is an effective interval of a different type.
IntervalValue	The value of the interval	N/A	Unsigned integer. Value range: 5 to 1440.	It must be a multiple of 5.

ACL/IPv4BasicRules

This table contains information about IPv4 basic ACL rules.

XML structure

```

<ACL>
  <IPv4BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv4BasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	This column must be configured together with the SrcIPv4 column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false .

Column name	Column description	Column type	Data type and restrictions	Remarks
				It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv4NamedBasicRules

This table contains information about named IPv4 basic ACL rules.

XML structure

```
<ACL>
  <IPv4NamedBasicRules>
```

```

<Rule>
  <GroupIndex></GroupIndex>
  <RuleID></RuleID>
  <Action></Action>
  <SrcAny></SrcAny>
  <SrcIPv4>
    <SrcIPv4Addr></SrcIPv4Addr>
    <SrcIPv4Wildcard></SrcIPv4Wildcard>
  </SrcIPv4>
  <Fragment></Fragment>
  <TimeRange></TimeRange>
  <VRF></VRF>
  <Counting></Counting>
  <Logging></Logging>
  <Comment></Comment>
</Rule>
</IPv4NamedBasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest

Column name	Column description	Column type	Data type and restrictions	Remarks
				rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	This column must be configured together with the SrcIPv4 column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false. It must be empty when the SrcAny column is true.
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false. It must be empty when the SrcAny column is true.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv6BasicRules

This table contains information about IPv6 basic ACL rules.

XML structure

```

<ACL>
  <IPv6BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv6BasicRules>
</ACL>

```


Table description

Item	Description
Feature name	ACL
Table name	IPv6BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	This column must be configured together with the SrcIPv6 column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Addr. - SrcIPv6Prefix.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	This column and the RoutingTypeValue column cannot both be configured.
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the RoutingTypeAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv6NamedBasicRules

This table contains information about named IPv6 basic ACL rules.

XML structure

```
<ACL>
  <IPv6NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
    </Rule>
  </IPv6NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of	You must create an ACL first before you create, merge, or replace rules for it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			2000 to 2999.	
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	This column must be configured together with the SrcIPv6 column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Addr. - SrcIPv6Prefix.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	This column and the RoutingTypeValue column cannot both be configured.
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the RoutingTypeAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			fragments and non-fragments (default).	
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv4AdvanceRules

This table contains information about IPv4 advanced ACL rules.

XML structure

```

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  <IPv4AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>

```

```

    <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DSCP></DSCP>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
    <SrcPortOp></SrcPortOp>
    <SrcPortValue1></SrcPortValue1>
    <SrcPortValue2></SrcPortValue2>
</SrcPort>
<DstPort>
    <DstPortOp></DstPortOp>
    <DstPortValue1></DstPortValue1>
    <DstPortValue2></DstPortValue2>
</DstPort>
<TcpFlag>
    <ACK></ACK>
    <FIN></FIN>
    <PSH></PSH>
    <RST></RST>
    <SYN></SYN>
    <URG></URG>
</TcpFlag>
<Established></Established>
<ICMP>
    <ICMPType></ICMPType>
    <ICMPCode></ICMPCode>
</ICMP>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
    <InSrcIPv4Addr></InSrcIPv4Addr>
    <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>
    <InDstIPv4Addr></InDstIPv4Addr>
    <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
    <InSrcPortOp></InSrcPortOp>
    <InSrcPortValue1></InSrcPortValue1>

```

```

        <InSrcPortValue2></InSrcPortValue2>
    </InSrcPort>
    <InDstPort>
        <InDstPortOp></InDstPortOp>
        <InDstPortValue1></InDstPortValue1>
        <InDstPortValue2></InDstPortValue2>
    </InDstPort>
    <InEstablished></InEstablished>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
</Rule>
</IPv4AdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type or an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the SrcIPv4 column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: true—Matches any destination IP addresses (default). false—Matches the specified destination IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the DstIPv4 column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: - DstIPv4Addr. - DstIPv4Wildcard.	This column must be configured together with the DstAny column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The DSCP priority and the ToS precedence cannot both be specified.
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols and the VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: - DstPortOp. - DstPortValue1. - DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is 5, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—RST flag is not set. • 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—SYN flag is not set. • 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—URG flag is not set. • 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • true—Matches the flags. • false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column and the TcpFlag column cannot both be configured.
ICMP	ICMP messages.	N/A	Members include: - ICMPType. - ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an encapsulation type you must specify an inner protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify an inner protocol type when you remove or delete a rule. If you specify an inner protocol type, you must specify an encapsulation type when you replace a

Column name	Column description	Column type	Data type and restrictions	Remarks
				rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: true—Matches any inner source IP addresses (default). false—Matches the specified inner source IP address.	This column must be configured together with the InSrcIPv4 column.
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: - InSrcIPv4Addr. - InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the InSrcAny column. The two members must both be specified.
InSrcIPv4 Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InSrcIPv4 Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address.	This column must be configured together with the InDstIPv4 column.
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: - InDstIPv4Addr. - InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column must be configured together with the InDstAny column. The two members must both be specified.
InDstIPv4 Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InDstAny column is false. It must be empty when the InDstAny column is true.
InDstIPv4 Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InDstAny column is false. It must be empty when the InDstAny column is true.
InSrcPort	Inner source port information.	Data structure	Members include: - InSrcPortOp. - InSrcPortValue1. - InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InSrcPort Op	Inner source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is 5, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: - InDstPortOp. - InDstPortValue1.	Only the TCP and UDP inner protocols support this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			InDstPortValue2.	The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP inner protocol supports this column.
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv4NamedAdvanceRules

This table contains information about named IPv4 advanced ACL rules.

XML structure

```
<ACL>
  <IPv4NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4Wildcard></DstIPv4Wildcard>
      </DstIPv4>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
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        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ICMP>
        <ICMPType></ICMPType>
        <ICMPCode></ICMPCode>
      </ICMP>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
```

```

<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
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  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
<InSrcPort>
  <InSrcPort0p></InSrcPort0p>
  <InSrcPortValue1></InSrcPortValue1>
  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
<InDstPort>
  <InDstPort0p></InDstPort0p>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InEstablished></InEstablished>
<Counting></Counting>
<Logging></Logging>
<Comment></Comment>
</Rule>
</IPv4NamedAdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type or an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the SrcIPv4 column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: true—Matches any destination IP addresses (default). false—Matches the specified destination IP address.	The VXLAN encapsulation supports this column. This column must be configured together with the DstIPv4 column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: - DstIPv4Addr. - DstIPv4Wildcard.	This column must be configured together with the DstAny column. The two members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	The DSCP priority and the IP precedence cannot both be specified.
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	The DSCP priority and the ToS precedence cannot both be specified.
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols and the VXLAN encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			range).	
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: • 1—lt (lower than). • 2—eq (equal to). • 3—gt (greater than). • 4—neq (not equal to). • 5—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—PSH flag is set.	
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—RST flag is not set. • 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—SYN flag is not set. • 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—URG flag is not set. • 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • true—Matches the flags. • false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the TcpFlag column cannot both be configured.
ICMP	ICMP messages.	N/A	Members include: • ICMPType. • ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • true—Matches only non-first fragments. • false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	You cannot specify an encapsulation type when you remove or delete a rule. If you specify an encapsulation type, you must specify an inner protocol when you replace a rule, or when you merge or create a rule that does not exist.
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	You cannot specify an inner protocol type when you remove or delete a rule. If you specify an inner protocol type, you must specify an encapsulation type when you replace a rule, or when you merge or create a rule that does not exist.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: true—Matches any inner source IP addresses (default). false—Matches the specified inner source IP address.	This column must be configured together with the InSrcIPv4 column.
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: - InSrcIPv4Addr. - InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the InSrcAny column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InSrcAny

Column name	Column description	Column type	Data type and restrictions	Remarks
				column is false . It must be empty when the InSrcAny column is true .
InSrcIPv4 Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address.	This column must be configured together with the InDstIPv4 column.
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: - InDstIPv4Addr. - InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. This column must be configured together with the InDstAny column. The two members must both be specified.
InDstIPv4 Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InDstAny column is false . It must be empty when the InDstAny column is true .
InDstIPv4 Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InDstAny column is false . It must be empty when the InDstAny column is true .
InSrcPort	Inner source port information.	Data structure	Members include: - InSrcPortOp. - InSrcPortValue1. - InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcPortOp	Inner source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: - InDstPortOp. - InDstPortValue1. - InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP inner protocol supports this column.
Counting	Whether to count	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the rule matches.		true—Counts the rule matches. false—Does not count the rule matches (default).	
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv6AdvanceRules

This table contains information about IPv6 advanced ACL rules.

XML structure

```

<ACL>
  <IPv6AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DSCP></DSCP>
      <FlowLabel></FlowLabel>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <SrcPort>
        <SrcPort0p></SrcPort0p>

```



```

        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
    </SrcPort>
    <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP6>
        <ICMP6Type></ICMP6Type>
        <ICMP6Code></ICMP6Code>
    </ICMP6>
    <Fragment></Fragment>
    <HopTypeAny></HopTypeAny>
    <HopTypeValue></HopTypeValue>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <QoSLocalID></QoSLocalID>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
</Rule>
</IPv6AdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	This column must be configured together with the SrcIPv6 column.
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Addr. - SrcIPv6Prefix.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: true—Matches any destination IPv6 addresses (default). false—Matches the specified destination IPv6 address.	This column must be configured together with the DstIPv6 column.
DstIPv6	Destination IPv6 information.	Data structure	Members include: - DstIPv6Addr. - DstIPv6Prefix.	This column must be configured together with the DstAny column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingType Any	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	This column and the RoutingTypeValue column cannot both be configured.
RoutingType Value	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the RoutingTypeAny column cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue 1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue 2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: • 1—lt (lower than). • 2—eq (equal to). • 3—gt (greater than). • 4—neq (not equal to). • 5—range (inclusive range).	N/A
DstPortValue 1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue 2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—RST flag is not set. 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—SYN flag is not set. 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—URG flag is not set. 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: - true—Matches the flags. - false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the TcpFlag column cannot both be configured.
ICMP6	ICMPv6 messages.	N/A	Members include: - ICMP6Type. - ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: - true—Matches only non-first fragments. - false—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: - true—Matches any types of Hop-by-Hop Options header. - false—Matches the specified type of Hop-by-Hop Options header (default).	This column and the HopTypeValue column cannot both be configured.
HopTypeValu	Type of	N/A	Unsigned integer.	This column and the

Column name	Column description	Column type	Data type and restrictions	Remarks
e	Hop-by-Hop Options header.		Value range: 0 to 255.	HopTypeAny column cannot both be configured.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/IPv6NamedAdvanceRules

This table contains information about named IPv6 advanced ACL rules.

XML structure

```

<ACL>
  <IPv6NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
      </SrcIPv6>
    </Rule>
  </IPv6NamedAdvanceRules>
</ACL>

```

```

        <SrcIPv6Prefix></SrcIPv6Prefix>
    </SrcIPv6>
    <DstAny></DstAny>
    <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
    </DstIPv6>
    <DSCP></DSCP>
    <FlowLabel></FlowLabel>
    <RoutingTypeAny></RoutingTypeAny>
    <RoutingTypeValue></RoutingTypeValue>
    <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
    </SrcPort>
    <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP6>
        <ICMP6Type></ICMP6Type>
        <ICMP6Code></ICMP6Code>
    </ICMP6>
    <Fragment></Fragment>
    <HopTypeAny></HopTypeAny>
    <HopTypeValue></HopTypeValue>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <QoSLocalID></QoSLocalID>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
</Rule>
</IPv6NamedAdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 3000 to 3999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	You cannot specify a protocol type when you remove or delete a rule. You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the	This column must be configured together with the SrcIPv6 column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			specified source IPv6 address.	
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Addr. - SrcIPv6Prefix.	This column must be configured together with the SrcAny column. The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: true—Matches any destination IPv6 addresses (default). false—Matches the specified destination IPv6 address.	This column must be configured together with the DstIPv6 column.
DstIPv6	Destination IPv6 information.	Data structure	Members include: - DstIPv6Addr. - DstIPv6Prefix.	This column must be configured together with the DstAny column. The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingType Any	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing	This column and the RoutingTypeValue column cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			header (default).	
RoutingType Value	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the RoutingTypeAny column cannot both be configured.
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue 1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue 2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: - DstPortOp. - DstPortValue1. - DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
DstPortValue 1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue 2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure.	Members include: - ACK. - FIN.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- PSH. - RST. - SYN. - URG.	
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—ACK flag is not set. 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—FIN flag is not set. 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—PSH flag is not set. 1—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—RST flag is not set. 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—SYN flag is not set. 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—URG flag is not set. 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model. This column and the TcpFlag column cannot both be configured.
ICMP6	ICMPv6 messages.	N/A	Members include: - ICMP6Type. - ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer.	Only the ICMPv6 protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: true—Matches any types of Hop-by-Hop Options header. false—Matches the specified type of Hop-by-Hop Options header (default).	This column and the HopTypeValue column cannot both be configured.
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	This column and the HopTypeAny column cannot both be configured.
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/MACRules

This table contains information about Ethernet frame header ACL rules.

XML structure

```
<ACL>
  <MACRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>
        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
      </Protocol>
      <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
      </LSAP>
      <EncapType></EncapType>
      <VxlanID></VxlanID>
      <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress>
        <InSrcMACMask></InSrcMACMask>
      </InSrcMACAddr>
      <InDstMACAddr>
        <InDstMACAddress></InDstMACAddress>
        <InDstMACMask></InDstMACMask>
      </InDstMACAddr>
      <InProtocol>
        <InProtocolType></InProtocolType>
        <InProtocolTypeMask></InProtocolTypeMask>
      </InProtocol>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
    </Rule>
  </MACRules>
```

</ACL>

Table description

Item	Description
Feature name	ACL
Table name	MACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 4000 to 4999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: - SrcMACAddress. - SrcMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff.
DstMACAddr	Information about the	Data structure	Members include: DstMACAddress.	The VXLAN encapsulation supports

Column name	Column description	Column type	Data type and restrictions	Remarks
	destination MAC address.		DstMACMask.	this column. The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	The VXLAN encapsulation supports this column. The members must both be specified. This column and the LSAP column cannot both be configured.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: - LSAPType. - LSAPTypeMask.	The members must both be specified. This column and the Protocol column cannot both be configured.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddress	Information about the inner	Data structure	Members include: InSrcMACAddress.	Only the VXLAN encapsulation supports

Column name	Column description	Column type	Data type and restrictions	Remarks
	source MAC address.		InSrcMACMask.	this column. The members must both be specified.
InSrcMACAddress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddress	Information about the inner destination MAC address.	Data structure	Members include: - InDstMACAddress. - InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of inner link layer protocol types are assigned by IANA.
InProtocolTypeMask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Counting	Whether to count the rule	N/A	Boolean: true—Counts the rule	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	matches.		matches. false—Does not count the rule matches (default).	
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/MACNamedRules

This table contains information about Named Ethernet frame header ACL rules.

XML structure

```

<ACL>
  <MACNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>
        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
      </Protocol>
      <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
      </LSAP>
      <EncapType></EncapType>
      <VxlanID></VxlanID>
      <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress >
        <InSrcMACMask></InSrcMACMask>
      </InSrcMACAddr>

```

```

<InDstMACAddr>
  <InDstMACAddress></InDstMACAddress>
  <InDstMACMask></InDstMACMask>
</InDstMACAddr>
<InProtocol>
  <InProtocolType></InProtocolType>
  <InProtocolTypeMask></InProtocolTypeMask>
</InProtocol>
<TimeRange></TimeRange>
<Counting></Counting>
<Comment></Comment>
</Rule>
</MACNamedRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	MACNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 4000 to 4999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule.

Column name	Column description	Column type	Data type and restrictions	Remarks
				You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: - SrcMACAddress. - SrcMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
SrcMACAddress	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: - DstMACAddress. - DstMACMask.	The VXLAN encapsulation supports this column. The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	The VXLAN encapsulation supports this column. The members must both be specified. This column and the LSAP column cannot both be configured.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of link layer protocol types are assigned by IANA.
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: - LSAPType. - LSAPTypeMask.	The members must both be specified. This column and the Protocol column cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: - InSrcMACAddress. - InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: - InDstMACAddress. - InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	Values of inner link layer protocol types are assigned by IANA.
InProtocolTypeMask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule. When the MatchOrder column is 2 , you can modify only the comment for a rule.

ACL/PfilterDefAction

This table contains information about the default global packet filter actions.

XML structure

```

<ACL>
  <PfilterDefAction>
    <DefaultAction></DefaultAction>
  </PfilterDefAction>
</ACL>

```

Table description

Item	Description
Feature name	ACL

Table name	PfilterDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default packet filter action	N/A	Enumeration: 1—Permit (default). 2—Deny.

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```

<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAcIType></AppAcIType>
      <AppAcIGroup></AppAcIGroup>
      <HardCount></HardCount>
    </Pfilter>
  </PfilterApply>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	Support for the specified type depends on the device model.
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action.	Type 5 is a special ACL.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAclType column. 2000 to 3999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2. 4000 to 4999 if AppAclType is 3. 5000 to 5999 if AppAclType is 4. 0 if AppAclType is 5.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: 1—enable. 2—disable.	Support for this function depends on the device model. Global default action and VLAN default action do not support this function.

ACL/UserRules

This table contains information about user-defined ACL rules.

XML structure

```
<ACL>
  <UserRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
        <L2Offset></L2Offset>
      </L2Rule>
      <IPv4Rule>
        <IPv4RuleString></IPv4RuleString>
        <IPv4RuleMask></IPv4RuleMask>
        <IPv4Offset></IPv4Offset>
      </IPv4Rule>
      <IPv6Rule>
        <IPv6RuleString></IPv6RuleString>
        <IPv6RuleMask></IPv6RuleMask>
        <IPv6Offset></IPv6Offset>
      </IPv6Rule>
      <L4Rule>
        <L4RuleString></L4RuleString>
        <L4RuleMask></L4RuleMask>
        <L4Offset></L4Offset>
      </L4Rule>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
    </Rule>
  </UserRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 5000 to 5999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: - L2RuleString. - L2RuleMask. - L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: - IPv4RuleString. - IPv4RuleMask. - IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv4Offset	Offset in bytes after which the	N/A	Unsigned integer. Value range: 0 to the	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	match operation begins.		device-specific upper limit.	
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: - IPv6RuleString. - IPv6RuleMask. - IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: - L4RuleString. - L4RuleMask. - L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule.

ACL/UserNamedRules

This table contains information about named user-defined ACL rules.

XML structure

```
<ACL>
  <UserNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
        <L2Offset></L2Offset>
      </L2Rule>
      <IPv4Rule>
        <IPv4RuleString></IPv4RuleString>
        <IPv4RuleMask></IPv4RuleMask>
        <IPv4Offset></IPv4Offset>
      </IPv4Rule>
      <IPv6Rule>
        <IPv6RuleString></IPv6RuleString>
        <IPv6RuleMask></IPv6RuleMask>
        <IPv6Offset></IPv6Offset>
      </IPv6Rule>
      <L4Rule>
        <L4RuleString></L4RuleString>
        <L4RuleMask></L4RuleMask>
        <L4Offset></L4Offset>
      </L4Rule>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
    </Rule>
  </UserNamedRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserNamedRules
Table type	Multi-instance table
Row name	Rule

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 5000 to 5999.	You must create an ACL first before you create, merge, or replace rules for it.
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65535. The value 65535 is an invalid rule ID.	If you set this column to 65535, the system automatically assigns a new rule ID. This rule ID is the nearest higher multiple of the numbering step to the current highest rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	You cannot specify an action when you remove or delete a rule. You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: - L2RuleString. - L2RuleMask. - L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: - IPv4RuleString. - IPv4RuleMask. - IPv4Offset.	The members must all be specified.
IPv4RuleStrin	String for the	N/A	Hexadecimal string.	The length must be an

Column name	Column description	Column type	Data type and restrictions	Remarks
g	match pattern.		Length: 2 to the device-specific upper limit.	even number.
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: - IPv6RuleString. - IPv6RuleMask. - IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: - L4RuleString. - L4RuleMask. - L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number, and equal to that of the match pattern string.
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			false—Does not count the rule matches (default).	
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	A comment can only be configured for an existing rule.

ACL/ZonePairPfilterApply

This table contains information about packet filter application for zone-pair.

XML structure

```

<ACL>
  <ZonePairPfilterApply>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AclType></AclType>
      <AclGroup></AclGroup>
    </Pfilter>
  </ZonePairPfilterApply>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).

Column name	Column description	Column type	Data type and restrictions	Remarks
AcIType	ACL type.	Index	Enumeration: • 1—IPv4 ACL. • 2—IPv6 ACL. • 3—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AcIGroup	ACL name or number.	Index	• ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. • 2000 to 5999 if AppAcIType is 1. • 2000 to 3999 if AppAcIType is 2.

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ACL

ACL/Base

This table contains ACL base table.

XML structure

```
<ACL>
  <Base>
    <ProcessingStatus></ProcessingStatus>
  </Base>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
ProcessingStatus	ACL processing status	N/A	Enumeration: • 1—Processing. • 2—Idle.

ACL/Capability

This table contains ACL capability information, and it is used to obtain custom ACL parameters.

XML structure

```
<ACL>
  <Capability>
    <UserAcLL2>
      <L2MaxOffset></L2MaxOffset>
      <L2MaxLen></L2MaxLen>
    </UserAcLL2>
  </Capability>
</ACL>
```

```

<UserAcLL4>
  <L4MaxOffset></L4MaxOffset>
  <L4MaxLen></L4MaxLen>
</UserAcLL4>
<UserAcIPv4>
  <IPv4MaxOffset></IPv4MaxOffset>
  <IPv4MaxLen></IPv4MaxLen>
</UserAcIPv4>
<UserAcIPv6>
  <IPv6MaxOffset></IPv6MaxOffset>
  <IPv6MaxLen></IPv6MaxLen>
</UserAcIPv6>
</Capability>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserAcLL2	Custom Layer 2 frame header parameters for user-defined ACL rules	Data structure	Members include: - L2MaxOffset. - L2MaxLen.
L2MaxOffset	Maximum offset relative to the beginning of the Layer 2 frame header	N/A	Unsigned integer. Value range: 0 to 254.
L2MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAcLL4	Custom Layer 4 header parameters for user-defined ACL rules	Data structure	Members include: - L4MaxOffset. - L4MaxLen.
L4MaxOffset	Maximum offset relative to the beginning of the Layer 4 header	N/A	Unsigned integer. Value range: 0 to 254.
L4MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.

Column name	Column description	Column type	Data type and restrictions
UserAclIPv4	Custom IPv4 header parameters for user-defined ACL rules	Data structure	Members include: - IPv4MaxOffset. - IPv4MaxLen.
IPv4MaxOffset	Maximum offset relative to the beginning of the IPv4 header	N/A	Unsigned integer. Value range: 0 to 254.
IPv4MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.
UserAclIPv6	Custom IPv6 header parameters for user-defined ACL rules	Data structure	Members include: - IPv6MaxOffset. - IPv6MaxLen.
IPv6MaxOffset	Maximum offset relative to the beginning of the IPv6 header	N/A	Unsigned integer. Value range: 0 to 254.
IPv6MaxLen	Maximum length of the match pattern string	N/A	Unsigned integer. Value range: 0 to 254.

ACL/Groups

This table displays ACL information.

XML structure

```

<ACL>
  <Groups>
    <Group>
      <GroupType></GroupType>
      <GroupID></GroupID>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Name></Name>
      <Description></Description>
      <RuleNum></RuleNum>
    </Group>
  </Groups>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	Groups
Table type	Multi-instance table
Row name	Group

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • 1—IPv4. • 2—IPv6. 3—MAC. • 4—User-defined.	N/A
GroupID	ACL number	Index	Unsigned integer. Value range: 2000 to 5999.	The value range depends on the GroupType column. • 2000 to 5999 if GroupType is 1. ◦ IPv4 basic ACL: 2000 to 2999. ◦ IPv4 advanced ACL: 3000 to 3999. ◦ Ethernet frame header ACL: 4000 to 4999. ◦ User-defined ACL: 5000 to 5999. • 2000 to 3999 if GroupType is 2. ◦ IPv6 basic ACL: 2000 to 2999. ◦ IPv6 advanced ACL: 3000 to 3999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • 1—Config (default). In this order, rules are sorted in ascending order of rule ID. • 2—Auto. In this order, rules are sorted in depth-first order.	N/A
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	N/A
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name is not supported for number ACL.
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.
RuleNum	Number of rules in the ACL	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/NamedGroups

This table displays named ACL information.

XML structure

```
<ACL>
  <NamedGroups>
    <Group>
      <GroupType></GroupType>
      <GroupCategory></GroupCategory>
      <GroupIndex></GroupIndex>
      <MatchOrder></MatchOrder>
      <Step></Step>
      <Description></Description>
      <RuleNum></RuleNum>
    </Group>
  </NamedGroups>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	NamedGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • 1—IPv4. • 2—IPv6. • 3—MAC. • 4—User-defined.	N/A
GroupCategory	ACL Category	Index	Enumeration: • 0—invalid. • 1—basic. • 2—advanced.	The value range depends on the GroupType column. • 1 to 2 if GroupType is 1 or 2. ◦ basic ACL: 1. ◦ advanced ACL: 2. • 0 if GroupType is 3 or 4.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 2000 to 5999.	The value range depends on the GroupType column. 2000 to 3999 if GroupType is 1. - IPv4 basic ACL: 2000 to 2999. - IPv4 advanced ACL: 3000 to 3999. 2000 to 3999 if GroupType is 2. - IPv6 basic ACL: 2000 to 2999. - IPv6 advanced ACL: 3000 to 3999. 4000 to 4999 if GroupType is 3. - Ethernet frame header ACL: 4000 to 4999. 5000 to 5999 if GroupType is 4. User-defined ACL: 5000 to 5999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: 1—Config (default). In this order, rules are sorted in ascending order of rule ID. 2—Auto. In this order, rules are sorted in depth-first order.	N/A
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	N/A
Description	ACL description	N/A	String, case-sensitive. Length: 1 to 127 characters.	By default, an ACL has no description.
RuleNum	Number of rules in the ACL	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/Intervals

This table contains ACL interval information.

XML structure

```
<ACL>
  <Intervals>
    <Interval>
      <IntervalType></IntervalType>
      <IntervalValue></IntervalValue>
    </Interval>
  </Intervals>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	Intervals
Table type	Multi-instance table
Row name	Interval
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalType	The type of the interval	Index	Enumeration: • 1—logging. • 2—trap.	The type of the interval specified for generating packet filtering logs or traps.
IntervalValue	The value of the interval	N/A	Unsigned integer. Value range: 5 to 1440.	It must be a multiple of 5.

ACL/IPv4BasicRules

This table contains IPv4 basic ACL rule information.

XML structure

```
<ACL>
  <IPv4BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
```



```

        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
    </SrcIPv4>
    <Fragment></Fragment>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
</Rule>
</IPv4BasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv4NamedBasicRules

This table contains named IPv4 basic ACL rule information.

XML structure

```
<ACL>
  <IPv4NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
    </Rule>
  </IPv4NamedBasicRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedBasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	The two members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv6BasicRules

This table contains IPv6 basic ACL rule information.

XML structure

```

<ACL>
  <IPv6BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
    </Rule>
  </IPv6BasicRules>
</ACL>

```

```

    <TimeRange></TimeRange>
    <VRF></VRF>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
  </Rule>
</IPv6BasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6BasicRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Address. - SrcIPv6Prefix.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv6NamedBasicRules

This table contains named IPv6 basic ACL rule information.

XML structure

```

<ACL>
  <IPv6NamedBasicRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
    </Rule>
  </IPv6NamedBasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedBasicRules
Table type	Multi-instance table

Item	Description
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Address. - SrcIPv6Prefix.	The members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv4AdvanceRules

This table contains IPv4 advanced ACL rule information.

XML structure

```
<ACL>
```

```

<IPv4AdvanceRules>
  <Rule>
    <GroupID></GroupID>
    <RuleID></RuleID>
    <Action></Action>
    <ProtocolType></ProtocolType>
    <SrcAny></SrcAny>
    <SrcIPv4>
      <SrcIPv4Addr></SrcIPv4Addr>
      <SrcIPv4Wildcard></SrcIPv4Wildcard>
    </SrcIPv4>
    <DstAny></DstAny>
    <DstIPv4>
      <DstIPv4Addr></DstIPv4Addr>
      <DstIPv4Wildcard></DstIPv4Wildcard>
    </DstIPv4>
    <DSCP></DSCP>
    <Precedence></Precedence>
    <TOS></TOS>
    <SrcPort>
      <SrcPortOp></SrcPortOp>
      <SrcPortValue1></SrcPortValue1>
      <SrcPortValue2></SrcPortValue2>
    </SrcPort>
    <DstPort>
      <DstPortOp></DstPortOp>
      <DstPortValue1></DstPortValue1>
      <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
      <ACK></ACK>
      <FIN></FIN>
      <PSH></PSH>
      <RST></RST>
      <SYN></SYN>
      <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
    </ICMP>
    <Fragment></Fragment>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <QoSLocalID></QoSLocalID>
    <EncapType></EncapType>
    <InProtocolType></InProtocolType>
  </Rule>
</IPv4AdvanceRules>

```

```

<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
<InSrcIPv4>
  <InSrcIPv4Addr></InSrcIPv4Addr>
  <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
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  <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
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  <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
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  <InDstPort0p></InDstPort0p>
  <InDstPortValue1></InDstPortValue1>
  <InDstPortValue2></InDstPortValue2>
</InDstPort>
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<Logging></Logging>
<Comment></Comment>
<Status></Status>
<Count></Count>
<MatchIndex></MatchIndex>
</Rule>
</IPv4AdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv4AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	The members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: true—Matches any destination IP addresses (default). false—Matches the specified destination IP address.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: - DstIPv4Addr. - DstIPv4Wildcard.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: - DstPortOp. - DstPortValue1. - DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortOp	Destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
DstPortValue 1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue 2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is 5, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure	Members include: - ACK. - FIN. - PSH. - RST. - SYN. - URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—ACK flag is not set. 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—FIN flag is not set. 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—PSH flag is not set. 1—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—RST flag is not set. 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—SYN flag is not set. 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—URG flag is not set. 1—URG flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP	ICMP messages.	Data structure	Members include: - ICMPType. - ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 0 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	Only the VXLAN encapsulation supports this column.
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: true—Matches any inner source IP addresses (default). false—Matches the specified inner source IP address.	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: - InSrcIPv4Addr. - InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address.	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: - InDstIPv4Addr. - InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InDstAny column is false. It must be empty when the InDstAny column is true.
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InDstAny column is false. It must be empty when the InDstAny column is true.
InSrcPort	Inner source port information.	Data structure	Members include: - InSrcPortOp. - InSrcPortValue1. - InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is 5, the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: - InDstPortOp. - InDstPortValue1. - InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstPortOp	Inner destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP inner protocol supports this column.
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv4NamedAdvanceRules

This table contains named IPv4 advanced ACL rule information.

XML structure

```
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      </DstIPv4>
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        <URG></URG>
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</ACL>

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Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IP addresses (default). false—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: - SrcIPv4Addr. - SrcIPv4Wildcard.	The members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: true—Matches any destination IP addresses (default). false—Matches the specified destination IP address.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: - DstIPv4Addr. - DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortValue 2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: • 1—lt (lower than). • 2—eq (equal to). • 3—gt (greater than). • 4—neq (not equal to). • 5—range (inclusive range).	N/A
DstPortValue 1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue 2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—RST flag is not set. 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—SYN flag is not set. 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—URG flag is not set. 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP	ICMP messages.	Data structure	Members include: - ICMPType. - ICMPCode.	The members must both be specified.
ICMPType	Type of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMP protocol supports this column.
ICMPCode	Code of ICMP messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMP message code is specified.	Only the ICMP protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 0 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
InProtocolType	Inner protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	Only the VXLAN encapsulation supports this column.
VxlanID	VXLAN ID.	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcAny	Whether a rule matches any inner source IP addresses.	N/A	Boolean: true—Matches any inner source IP addresses (default). false—Matches the specified inner source IP address.	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: - InSrcIPv4Addr. - InSrcIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InSrcAny column is false . It must be empty when the InSrcAny column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address.	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: - InDstIPv4Addr. - InDstIPv4Wildcard.	Only the VXLAN encapsulation supports this column. The two members must both be specified.
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the InDstAny column is false . It must be empty when the InDstAny column is true .
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the InDstAny column is false . It must be empty when the InDstAny column is true .
InSrcPort	Inner source port information.	Data structure	Members include: - InSrcPortOp. - InSrcPortValue1. - InSrcPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InSrcPortOp	Inner source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InSrcPortValue1	Start inner source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcPortValue2	End inner source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InSrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner source port is not available.
InDstPort	Inner destination port information.	Data structure	Members include: - InDstPortOp. - InDstPortValue1. - InDstPortValue2.	Only the TCP and UDP inner protocols support this column. The members must be all specified.
InDstPortOp	Inner destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
InDstPortValue1	Start inner destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InDstPortValue2	End inner destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When InDstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end inner destination port is not available.
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP inner protocol supports this column.
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv6AdvanceRules

This table contains IPv6 advanced ACL rule information.

XML structure

```

<ACL>
  <IPv6AdvanceRules>
    <Rule>
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      <RuleID></RuleID>
      <Action></Action>
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      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DSCP></DSCP>
      <FlowLabel></FlowLabel>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>

```

```

        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP6>
        <ICMP6Type></ICMP6Type>
        <ICMP6Code></ICMP6Code>
    </ICMP6>
    <Fragment></Fragment>
    <HopTypeAny></HopTypeAny>
    <HopTypeValue></HopTypeValue>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <QoSLocalID></QoSLocalID>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
</Rule>
</IPv6AdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: • true—Matches any source IPv6 addresses (default). • false—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: • SrcIPv6Addr. • SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: • true—Matches any destination IPv6 addresses (default). • false—Matches the specified destination IPv6 address.	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: • DstIPv6Addr. • DstIPv6Prefix.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPort	Destination port information.	Data structure	Members include: • DstPortOp. • DstPortValue1. • DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: • 1—lt (lower than). • 2—eq (equal to). • 3—gt (greater than). • 4—neq (not equal to). • 5—range (inclusive range).	N/A
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—RST flag is not set. 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—SYN flag is not set. 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. 0—URG flag is not set. 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP6	ICMPv6 messages.	Data structure	Members include: - ICMP6Type. - ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: true—Matches any types of Hop-by-Hop Options header. false—Matches the specified type of Hop-by-Hop Options header (default).	N/A
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 0 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/IPv6NamedAdvanceRules

This table contains named IPv6 advanced ACL rule information.

XML structure

```
<ACL>
  <IPv6NamedAdvanceRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DSCP></DSCP>
      <FlowLabel></FlowLabel>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
      <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
      </DstPort>
      <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
      </TcpFlag>
      <Established></Established>
      <ICMP6>
        <ICMP6Type></ICMP6Type>
```

```

        <ICMP6Code></ICMP6Code>
    </ICMP6>
    <Fragment></Fragment>
    <HopTypeAny></HopTypeAny>
    <HopTypeValue></HopTypeValue>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <QoSLocalID></QoSLocalID>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
</Rule>
</IPv6NamedAdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedAdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 3000 to 3999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv6 protocols.	N/A
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Addr. - SrcIPv6Prefix.	The two members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: true—Matches any destination IPv6 addresses (default). false—Matches the specified destination IPv6 address.	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: - DstIPv6Addr. - DstIPv6Prefix.	The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: - DstPortOp. - DstPortValue1. - DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Boolean: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstPortValue1	Start destination port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPortValue2	End destination port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the DstPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end destination port is not available.
TcpFlag	TCP flags.	Data structure	Members include: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—RST flag is not set. • 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—SYN flag is not set. • 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—URG flag is not set. • 1—URG flag is set.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: true—Matches the flags. false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.
ICMP6	ICMPv6 messages.	Data structure	Members include: - ICMP6Type. - ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: true—Matches any types of Hop-by-Hop Options header. false—Matches the specified type of Hop-by-Hop Options header (default).	N/A
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 0 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Logging	Whether to log rule match events.	N/A	Boolean: true—Logs rule match events. false—Does not log rule match events (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/MACRules

This table contains Ethernet frame header ACL rule information.

XML structure

```

<ACL>
  <MACRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
      <COS></COS>
      <Protocol>

```

```

        <ProtocolType></ProtocolType>
        <ProtocolTypeMask></ProtocolTypeMask>
    </Protocol>
    <LSAP>
        <LSAPType></LSAPType>
        <LSAPTypeMask></LSAPTypeMask>
    </LSAP>
    <EncapType></EncapType>
    <VxlanID></VxlanID>
    <InSrcMACAddr>
        <InSrcMACAddress></InSrcMACAddress>
        <InSrcMACMask></InSrcMACMask>
    </InSrcMACAddr>
    <InDstMACAddr>
        <InDstMACAddress></InDstMACAddress>
        <InDstMACMask></InDstMACMask>
    </InDstMACAddr>
    <InProtocol>
        <InProtocolType></InProtocolType>
        <InProtocolTypeMask></InProtocolTypeMask>
    </InProtocol>
    <TimeRange></TimeRange>
    <Counting></Counting>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
</Rule>
</MACRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	MACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 4000 to 4999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: - SrcMACAddress. - SrcMACMask.	The members must both be specified.
SrcMACAddresses	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: - DstMACAddress. - DstMACMask.	The members must both be specified.
DstMACAddresses	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	The members must both be specified.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: - LSAPType. - LSAPTypeMask.	The members must both be specified.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: - InSrcMACAddress. - InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: - InDstMACAddress. - InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InProtocolType	Type of the inner	N/A	Hexadecimal string.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	link layer protocol.		Length: 1 to 4 characters. Value range: 0 to FFFF.	
InProtocolType Mask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/MACNamedRules

This table contains named Ethernet frame header ACL rule information.

XML structure

```

<ACL>
  <MACNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <SrcMACAddr>
        <SrcMACAddress></SrcMACAddress>
        <SrcMACMask></SrcMACMask>
      </SrcMACAddr>
      <DstMACAddr>
        <DstMACAddress></DstMACAddress>
        <DstMACMask></DstMACMask>
      </DstMACAddr>
    </Rule>
  </MACNamedRules>
</ACL>

```

```

</DstMACAddr>
<COS></COS>
<Protocol>
  <ProtocolType></ProtocolType>
  <ProtocolTypeMask></ProtocolTypeMask>
</Protocol>
<LSAP>
  <LSAPType></LSAPType>
  <LSAPTypeMask></LSAPTypeMask>
</LSAP>
<EncapType></EncapType>
<VxlanID></VxlanID>
<InSrcMACAddr>
  <InSrcMACAddress></InSrcMACAddress>
  <InSrcMACMask></InSrcMACMask>
</InSrcMACAddr>
<InDstMACAddr>
  <InDstMACAddress></InDstMACAddress>
  <InDstMACMask></InDstMACMask>
</InDstMACAddr>
<InProtocol>
  <InProtocolType></InProtocolType>
  <InProtocolTypeMask></InProtocolTypeMask>
</InProtocol>
<TimeRange></TimeRange>
<Counting></Counting>
<Comment></Comment>
<Status></Status>
<Count></Count>
<MatchIndex></MatchIndex>
</Rule>
</MACNamedRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	MACNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 4000 to 4999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: - SrcMACAddress. - SrcMACMask.	The members must both be specified.
SrcMACAddresses	Source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SrcMACMask	Mask of the source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: - DstMACAddress. - DstMACMask.	The members must both be specified.
DstMACAddresses	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	The members must both be specified.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: - LSAPType. - LSAPTypeMask.	The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
EncapType	Encapsulation type.	N/A	Members include: - VXLAN encapsulation. - GRE encapsulation. - IPINIP encapsulation.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer Value range: 0 to 16777215	Only the VXLAN encapsulation supports this column.
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: - InSrcMACAddress. - InSrcMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InSrcMACAddress	Inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InSrcMACMask	Mask of the inner source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: - InDstMACAddress. - InDstMACMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.
InDstMACAddress	Inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
InDstMACMask	Mask of the inner destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
InProtocol	Inner link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	Only the VXLAN encapsulation supports this column. The members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
InProtocolType	Type of the inner link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
InProtocolType Mask	Mask of the inner link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchIndex	Index of the rule after sorting.	N/A	Unsigned integer. Value range: 0 to 65534.	N/A

ACL/PfilterDefAction

This table contains information about the default global packet filter actions.

XML structure

```

<ACL>
  <PfilterDefAction>
    <DefaultAction></DefaultAction>
  </PfilterDefAction>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterDefAction
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DefaultAction	Default packet filter action	N/A	Enumeration: • 1—Permit (default). • 2—Deny.

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAcIType></AppAcIType>
      <AppAcIGroup></AppAcIGroup>
      <HardCount></HardCount>
      <AppSequence></AppSequence>
    </Pfilter>
  </PfilterApply>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	PfilterApply
Table type	Multi-instance table

Item	Description
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action.	Type 5 is a special ACL.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AppAclType column. 2000 to 3999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2. 4000 to 4999 if AppAclType is 3. 5000 to 5999 if AppAclType is 4. 0 if AppAclType is 5.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: 1—enable. 2—disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppSequence	ACL application sequence.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

ACL/PfilterGroupRunInfo

This table contains running information about packet filter ACLs on application objects.

XML structure

```

<ACL>
  <PfilterGroupRunInfo>
    <GroupRunInfo>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAcIType></AppAcIType>
      <AppAcIGroup></AppAcIGroup>
      <AcIGroupStatus></AcIGroupStatus>
      <AcIGroupCountStatus></AcIGroupCountStatus>
      <AcIGroupPermitPkts></AcIGroupPermitPkts>
      <AcIGroupPermitBytes></AcIGroupPermitBytes>
      <AcIGroupDenyPkts></AcIGroupDenyPkts>
      <AcIGroupDenyBytes></AcIGroupDenyBytes>
    </GroupRunInfo>
  </PfilterGroupRunInfo>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterGroupRunInfo
Table type	Multi-instance table
Row name	GroupRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action.	Type 5 is a special ACL. The default action can be the default MAC action, default IPv4 action, or default IPv6 action.
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	The value depends on the AppAclType column. 2000 to 3999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2. 4000 to 4999 if AppAclType is 3. 5000 to 5999 if AppAclType is 4. 1 if AppAclType is 4 and the default action is default MAC action. 2 if AppAclType is 4 and the default action is default IPv4 action. 3 if AppAclType is 4 and the default action is default IPv6 action.
AclGroupStatus	Whether an ACL is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclGroupCountStatus	Whether an ACL with hardware counting enabled is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclGroupPermitPkts	Number of permitted packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFF is returned.
AclGroupPermitBytes	Number of permitted bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFF is returned.
AclGroupDenyPkts	Number of denied packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFF is returned.
AclGroupDenyBytes	Number of denied bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFF is returned.

ACL/PfilterRuleRunInfo

This table contains running information about packet filter ACL rules on application objects.

XML structure

```

<ACL>
  <PfilterRuleRunInfo>
    <RuleRunInfo>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <AppAclRuleIndex></AppAclRuleIndex>
      <AclRuleStatus></AclRuleStatus>
      <AclRuleCountStatus></AclRuleCountStatus>
      <AclRuleMatchPkts></AclRuleMatchPkts>
      <AclRuleMatchBytes></AclRuleMatchBytes>
    </RuleRunInfo>
  </PfilterRuleRunInfo>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterRuleRunInfo
Table type	Multi-instance table
Row name	RuleRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL.	N/A
AppAclGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AppAclType column. 2000 to 3999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2. 4000 to 4999 if AppAclType is 3. 5000 to 5999 if AppAclType is 4.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppAclRuleIndex	Index of the ACL rules.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
AclRuleStatus	Whether an ACL rule is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclRuleCountStatus	Whether an ACL rule with hardware counting enabled is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclRuleMatchPkts	Number of matched packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.
AclRuleMatchBytes	Number of matched bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.

ACL/PfilterStatisticSum

This table contains accumulative statistics about an ACL on a specific direction.

XML structure

```

<ACL>
  <PfilterStatisticSum>
    <StatisticSum>
      <Direction></Direction>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <AclRuleIndex></AclRuleIndex>
      <MatchPackets></MatchPackets>
      <MatchBytes></MatchBytes>
    </StatisticSum>
  </PfilterStatisticSum>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterStatisticSum
Table type	Multi-instance table
Row name	StatisticSum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AcIType	ACL type	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL.	N/A
AcIGroup	ACL name or number	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits valued 0 or in the range of 2000 to 5999.	The value range depends on the AcIType column. 2000 to 3999 if AcIType is 1. 2000 to 3999 if AcIType is 2. 4000 to 4999 if AppAcIType is 3. 5000 to 5999 if AppAcIType is 4.
AcIRuleIndex	Index of the ACL rules	Index	Unsigned integer. Value range: 0 to 65534.	N/A
MatchPackets	Number of matched packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.
MatchBytes	Number of matched bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.

ACL/UserRules

This table contains information about user-defined ACL rules.

XML structure

```
<ACL>
  <UserRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
        <L2Offset></L2Offset>
      </L2Rule>
      <IPv4Rule>
        <IPv4RuleString></IPv4RuleString>
        <IPv4RuleMask></IPv4RuleMask>
        <IPv4Offset></IPv4Offset>
      </IPv4Rule>
      <IPv6Rule>
        <IPv6RuleString></IPv6RuleString>
        <IPv6RuleMask></IPv6RuleMask>
        <IPv6Offset></IPv6Offset>
      </IPv6Rule>
      <L4Rule>
        <L4RuleString></L4RuleString>
        <L4RuleMask></L4RuleMask>
        <L4Offset></L4Offset>
      </L4Rule>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
    </Rule>
  </UserRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserRules

Item	Description
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 5000 to 5999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: • 1—Deny. • 2—Permit.	N/A
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: • L2RuleString. • L2RuleMask. • L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: • IPv4RuleString. • IPv4RuleMask. • IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: - IPv6RuleString. - IPv6RuleMask. - IPv6Offset.	The members must all be specified.
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: - L4RuleString. - L4RuleMask. - L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

ACL/UserNamedRules

This table contains information about named user-defined ACL rules.

XML structure

```
<ACL>
  <UserNamedRules>
    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <L2Rule>
        <L2RuleString></L2RuleString>
        <L2RuleMask></L2RuleMask>
        <L2Offset></L2Offset>
      </L2Rule>
      <IPv4Rule>
        <IPv4RuleString></IPv4RuleString>
        <IPv4RuleMask></IPv4RuleMask>
        <IPv4Offset></IPv4Offset>
      </IPv4Rule>
      <IPv6Rule>
        <IPv6RuleString></IPv6RuleString>
        <IPv6RuleMask></IPv6RuleMask>
        <IPv6Offset></IPv6Offset>
      </IPv6Rule>
      <L4Rule>
        <L4RuleString></L4RuleString>
        <L4RuleMask></L4RuleMask>
        <L4Offset></L4Offset>
      </L4Rule>
      <TimeRange></TimeRange>
      <Counting></Counting>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
    </Rule>
  </UserNamedRules>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserNamedRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupIndex	ACL name or number.	Index	String. Length: 1 to 63 characters. ACL name: Case-insensitive string of 1 to 63 characters. ACL number: String of digits in the range of 5000 to 5999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: - L2RuleString. - L2RuleMask. - L2Offset.	The members must all be specified.
L2RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L2Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: - IPv4RuleString. - IPv4RuleMask. - IPv4Offset.	The members must all be specified.
IPv4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv4Offset	Offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
IPv6Rule	Specifies that the offset is relative to the beginning of the IPv6 header.	Data structure	Members include: - IPv6RuleString. - IPv6RuleMask. - IPv6Offset.	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
IPv6Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
L4Rule	Specifies that the offset is relative to the beginning of the Layer 4 header.	Data structure	Members include: - L4RuleString. - L4RuleMask. - L4Offset.	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L4Offset	Specifies an offset in bytes after which the match operation begins.	N/A	Unsigned integer. Value range: 0 to the device-specific upper limit.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A
Count	Number of packets that match a rule.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

ACL/ZonePairPfilterApply

This table contains information about packet filter application for zone pair.

XML structure

<ACL>


```

<ZonePairPfilterApply>
  <Pfilter>
    <SrcZone></SrcZone>
    <DestZone></DestZone>
    <AcIType></AcIType>
    <AcIGroup></AcIGroup>
    <AppSequence></AppSequence>
  </Pfilter>
</ZonePairPfilterApply>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilterApply
Table type	Multi-instance table
Row name	Pfilter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
AcIType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AcIGroup	ACL name or number.	Index	- ACL name: Case-insensitive string of 1 to 63 characters. - ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. 2000 to 5999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppSequence	ACL application sequence.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

ACL/ZonePairPfilterRules

This table contains running information about packet filter ACL rules for zone pair.

XML structure

```

<ACL>
  <ZonePairPfilterRules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <AcIType></AcIType>
      <AcIGroup></AcIGroup>
      <AcIRuleID></AcIRuleID>
      <RuleMatchPkts></RuleMatchPkts>
      <RuleMatchBytes></RuleMatchBytes>
    </Rule>
  </ZonePairPfilterRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	ZonePairPfilterRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).

Column name	Column description	Column type	Data type and restrictions	Remarks
DestZone	Name of the destination zone.	Index	String, case insensitive. Length: 1 to 31 characters.	Cannot contain midline(-).
AcIType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.
AcIGroup	ACL name or number.	Index	- ACL name: Case-insensitive string of 1 to 63 characters. - ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. 2000 to 5999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2.
AcIRuleID	Index of the ACL rules.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
RuleMatchPkts	Number of matched packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.
RuleMatchBytes	Number of matched bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.

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ADVPN

ResetTunnelAdvpnSession

This table is used to clear ADVPN sessions in the specified tunnel.

XML structure

```
<ResetTunnelAdvpnSession>
  <Reset>
    <IPVersion></IPVersion>
    <TunnelID></TunnelID>
    <PrivateAddress></PrivateAddress>
  </Reset>
</ResetTunnelAdvpnSession>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetTunnelAdvpnSession
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration 4—IPv4 6—IPv6	This column must not be empty.
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddresses	Private address	N/A	String	IPv4 address or IPv6 address.

ResetAllSessions

This table is used to clear all ADVPN sessions.

XML structure

```
<ResetAllSessions>
  <Reset>
    <IPVersion></IPVersion>
  </Reset>
</ResetAllSessions>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetAllSessions
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration 4—IPv4 6—IPv6	This column must not be empty.

ResetTunnelAdvpnSessionStat

This table is used to clear ADVPN session statistics for the specified tunnel.

XML structure

```
<ResetTunnelAdvpnSessionStat>
  <Reset>
    <IPVersion></IPVersion>
    <TunnelID></TunnelID>
    <PrivateAddress></PrivateAddress>
  </Reset>
</ResetTunnelAdvpnSessionStat>
```

Table description

Item	Description
Feature name	ADVPN

Item	Description
Table name	ResetSessionStatistics
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration 4—IPv4 6—IPv6	This column must not be empty.
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddresses	Private address	N/A	String	IPv4 address or IPv6 address.

ResetAllSessionStats

This table is used to clear all ADVPN session statistics.

XML structure

```
<ResetAllSessionStats>
  <Reset>
    <IPVersion></IPVersion>
  </Reset>
</ResetAllSessionStats>
```

Table description

Item	Description
Feature name	ADVPN
Table name	ResetAllSessionStatistics
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	Version of the IP protocol	Index	Enumeration • 4—IPv4 • 6—IPv6	This column must not be empty.

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ADVPN

TunnelAdvpnCfg

This table is used to configure ADVPN feature in the specified tunnel.

XML structure

```
<TunnelAdvpnCfg>
  <Tunnel>
    <TunnelID></TunnelID>
    <IPv4Client></IPv4Client>
    <Compatible></Compatible>
    <IPv6Client></IPv6Client>
    <DumbTime></DumbTime>
    <IdleTime></IdleTime>
    <SourcePort></SourcePort>
  </Tunnel>
</TunnelAdvpnCfg>
```

Table description

Item	Description
Feature name	ADVPN
Table name	TunnelAdvpnCfg
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
IPv4Client	Name of the VAM client bounded to an IPv4 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Compatible	Compatibility configuration	N/A	Enumeration: 0—Incompatible 1—Compatible 2—Invalid	The value of “2” means not specifying the IPv4 VAM client config.
IPv6Client	Name of the VAM client bounded to an IPv6 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DumbTime	Dumb time for an ADVPN session	N/A	Unsigned integer Value range: 10 to 600 The default value is 120 seconds	N/A
IdleTime	Idle timeout time for a spoke-spoke ADVPN tunnel	N/A	Unsigned integer. Value range: 60 to 65535. The default value is 600 seconds	N/A
SourcePort	Source UDP port number	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18001	Only supports tunnel in the following modes: 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6.

IPv4Networks

This table is used to configure the IPv4 subnets under the specified tunnel which is ADVPN node.

XML structure

```

<IPv4Networks>
  <IPv4Network>
    <TunnelID></TunnelID>
    <Address></Address>
    <MaskLength></MaskLength>
    <Preference></Preference>
  </IPv4Network>
</IPv4Networks>

```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4Networks
Table type	Multi-instance table
Row name	IPv4Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv4 network address	Index	IPv4 address	N/A.
MaskLength	Mask of the private IPv4 network address	Index	Unsigned integer Value range: 0 to 32	Example: 24
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv6Networks

This table is used to configure the IPv6 subnets under the specified tunnel which is ADVPN node.

XML structure

```
<IPv6Networks>
  <IPv6Network>
    <TunnelID></TunnelID>
    <Address></Address>
    <MaskLength></MaskLength>
    <Preference></Preference>
  </IPv6Network>
</IPv6Networks>
```

Table description

Item	Description
Feature name	ADVPN

Item	Description
Table name	IPv6Networks
Table type	Multi-instance table
Row name	IPv6Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv6 network address	Index	IPv6 address	Example: 1001::
MaskLength	Prefix length of private IPv6 network address	Index	Unsigned integer Value range: 0 to 128	N/A.
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

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ADVPN

TunnelAdvpnCfg

This table displays the configuration about ADVPN tunnels.

XML structure

```
<TunnelAdvpnCfg>
  <Tunnel>
    <TunnelID></TunnelID>
    <IPv4Client></IPv4Client>
    <Compatible></Compatible>
    <IPv6Client></IPv6Client>
    <DumbTime></DumbTime>
    <IdleTime></IdleTime>
    <SourcePort></SourcePort>
  </Tunnel>
</TunnelAdvpnCfg>
```

Table description

Item	Description
Feature name	ADVPN
Table name	TunnelAdvpnCfg
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
IPv4Client	Name of the VAM client bounded to an IPv4 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
Compatible	Compatibility configuration	N/A	Enumeration: 0—Incompatible 1—Compatible 2—Invalid	The value of “2” means not specifying the IPv4 VAM client config.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Client	Name of the VAM client bounded to an IPv6 ADVPN tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DumbTime	Dumb time for an ADVPN session	N/A	Unsigned integer Value range: 10 to 600 The default value is 120 seconds	N/A
IdleTime	Idle timeout time for a spoke-spoke ADVPN tunnel	N/A	Unsigned integer. Value range: 60 to 65535. The default value is 600 seconds	N/A
SourcePort	Source UDP port number	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18001	Only supports tunnel in the following modes: • 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6.

IPv4Networks

This table displays the IPv4 subnets configuration under an ADVPN node.

XML structure

```

<IPv4Networks>
  <IPv4Network>
    <TunnelID></TunnelID>
    <Address></Address>
    <MaskLength></MaskLength>
    <Preference></Preference>
  </IPv4Network>
</IPv4Networks>

```


Table description

Item	Description
Feature name	ADVPN
Table name	IPv4Networks
Table type	Multi-instance table
Row name	IPv4Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv4 network address	Index	IPv4 address	N/A.
MaskLength	Mask of the private IPv4 network address	Index	Unsigned integer Value range: 0 to 32	Example: 24
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv6Networks

This table displays the IPv6 subnets configuration under an ADVPN node.

XML structure

```
<IPv6Networks>
  <IPv6Network>
    <TunnelID></TunnelID>
    <Address></Address>
    <MaskLength></MaskLength>
    <Preference></Preference>
  </IPv6Network>
</IPv6Networks>
```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6Networks

Item	Description
Table type	Multi-instance table
Row name	IPv6Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A.
Address	Private IPv6 network address	Index	IPv6 address	Example: 1001::
MaskLength	Prefix length of private IPv6 network address	Index	Unsigned integer Value range: 0 to 128	N/A.
Preference	Preference for the route to the private network	N/A	Unsigned integer Value range: 1 to 255 The default value is 8	N/A.

IPv4TunnelAdvpnSession

This table is used to display IPv4 ADVPN tunnel session information.

XML structure

```

<IPv4TunnelAdvpnSession>
  <IPv4AdvpnSession>
    <TunnelID></TunnelID>
    <PrivateAddress></PrivateAddress>
    <PublicAddress></PublicAddress>
    <AdvpnPort></AdvpnPort>
    <SPI>
      <AhInbound></AhInbound>
      <AhOutbound></AhOutbound>
      <EspInbound></EspInbound>
      <EspOutbound></EspOutbound>
    </SPI>
    <BehindNAT></BehindNAT>
    <SessionType></SessionType>
    <TunnelState></TunnelState>
    <HoldingTime></HoldingTime>
    <Input>
      <TotalPackets></TotalPackets>
      <DataPackets></DataPackets>
      <ControlPackets></ControlPackets>
    </Input>
  </IPv4AdvpnSession>
</IPv4TunnelAdvpnSession>

```

```

    <Multicasts></Multicasts>
    <Errors></Errors>
</Input>
<Output>
    <TotalPackets></TotalPackets>
    <DataPackets></DataPackets>
    <ControlPackets></ControlPackets>
    <Multicasts></Multicasts>
    <Errors></Errors>
</Output>
</IPv4AdvpnSession>
</IPv4TunnelAdvpnSession>

```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4TunnelAdvpnSession
Table type	Multi-instance table
Row name	IPv4AdvpnSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddresses	Private address of the ADVPN tunnel peer	Index	Ipv4Address	IPv4 address
PublicAddress	Public address of the ADVPN tunnel peer	N/A	String	IPv4 address. IPv6 address.
AdvpnPort	UDP port number for the ADVPN tunnel	N/A	Unsigned integer Value range: 1025 to 65535	Only supported when the link layer protocol is UDP or IPsec-UDP.
SPI	SP index for the inbound and outbound SAs	Data structure	Members include: - AhInbound - AhOutbound - EspInbound - EspOutbound	Only supported when link layer protocol is IPsec-UDP or IPsec-GRE .
AhInbound	Inbound AH SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
AhOutbound	Outbound AH SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EspInbound	Inbound ESP SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
EspOutbound	Outbound ESP SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
BehindNAT	Whether the NAT peer node is behind NAT	N/A	Boolean: - true - False	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: 0—Unknown 1—Hub-Hub 2—Hub-Spoke 3—Spoke-Hub 4—Spoke-Spoke	N/A
TunnelState	ADVPN tunnel state	N/A	Enumeration: 0—Establishing 1—Dumb 2—Success	N/A
HoldingTime	Duration that the tunnel has been in the current state	N/A	Unsigned integer	Unit: seconds
Input	Statistics for incoming packets	Data structure	Members include: - TotalPackets - DataPackets - ControlPackets - Multicasts - Errors	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned Integer64	64位无符号数
DataPackets	The number of incoming data packets	N/A	Unsigned Integer64	64位无符号数
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	64位无符号数
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	64位无符号数
Errors	The number of incoming erroneous packets	N/A	Unsigned integer 64	64位无符号数

Column name	Column description	Column type	Data type and restrictions	Remarks
Output	Statistics for outgoing packets	Data structure	Members include: - TotalPackets - DataPackets - ControlPackets - Multicasts - Errors	N/A
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer	64位无符号数
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	64位无符号数
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	64位无符号数
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	64位无符号数
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	64位无符号数

IPv6TunnelAdvpnSession

This table is used to display IPv6 ADVPN tunnel session information.

XML structure

```

<IPv6TunnelAdvpnSession>
  <IPv6AdvpnSession>
    <TunnelID></TunnelID>
    <PrivateAddress></PrivateAddress>
    <PublicAddress></PublicAddress>
    <AdvpnPort></AdvpnPort>
    <SPI>
      <AhInbound></AhInbound>
      <AhOutbound></AhOutbound>
      <EspInbound></EspInbound>
      <EspOutbound></EspOutbound>
    </SPI>
    <BehindNAT></BehindNAT>
    <SessionType></SessionType>
    <TunnelState></TunnelState>
    <HoldingTime></HoldingTime>
    <Input>
      <TotalPackets></TotalPackets>
      <DataPackets></DataPackets>
      <ControlPackets></ControlPackets>
    </Input>
  </IPv6AdvpnSession>
</IPv6TunnelAdvpnSession>

```

```

    <Multicasts></Multicasts>
    <Errors></Errors>
</Input>
<Output>
    <TotalPackets></TotalPackets>
    <DataPackets></DataPackets>
    <ControlPackets></ControlPackets>
    <Multicasts></Multicasts>
    <Errors></Errors>
</Output>
</IPv6AdvpnSession>
</IPv6TunnelAdvpnSession>

```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6TunnelAdvpnSession
Table type	Multi-instance table
Row name	IPv6AdvpnSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
PrivateAddresses	Private address of the ADVPN tunnel peer	Index	Ipv6Address	IPv6 address
PublicAddress	Public address of the ADVPN tunnel peer	N/A	String	IPv4 address. IPv6 address.
AdvpnPort	UDP port number for the ADVPN tunnel	N/A	Unsigned integer Value range: 1025 to 65535	Only supported when the link layer protocol is UDP or IPsec-UDP.
SPI	SP index for the inbound and outbound SAs	Data structure	Members include: - AhInbound - AhOutbound - EspInbound - EspOutbound	Only supported when the link layer protocol is IPsec-UDP or IPsec-GRE .
AhInbound	Inbound AH SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
AhOutbound	Outbound AH SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EspInbound	Inbound ESP SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
EspOutbound	Outbound ESP SP index	N/A	Unsigned integer Value range: 0 to 65535	N/A
BehindNAT	Whether the NAT peer node is behind NAT	N/A	Boolean: - true - False	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: 0—Unknown 1—Hub-Hub 2—Hub-Spoke 3—Spoke-Hub 4—Spoke-Spoke	N/A
TunnelState	ADVPN tunnel state	N/A	Enumeration: 0—Establishing 1—Dumb 2—Success	N/A
HoldingTime	Duration that the tunnel has been in the current state	N/A	Unsigned integer	Unit: seconds
Input	Statistics for incoming packets	Data structure	Members include: - TotalPackets - DataPackets - ControlPackets - Multicasts - Errors	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned integer 64	64位无符号数
DataPackets	The number of incoming data packets	N/A	Unsigned integer 64	64位无符号数
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	64位无符号数
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	64位无符号数
Errors	The number of incoming erroneous packets	N/A	Unsigned integer 64	64位无符号数

Column name	Column description	Column type	Data type and restrictions	Remarks
Output	Statistics for outgoing packets	Data structure	Members include: - TotalPackets - DataPackets - ControlPackets - Multicasts - Errors	N/A
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer 64	64位无符号数
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	64位无符号数
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	64位无符号数
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	64位无符号数
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	64位无符号数

IPv4TunnelRunInfo

This table displays the IPv4 interface information.

XML structure

```

<IPv4TunnelRunInfo>
  <TunnelRunInfo>
    <TunnelID></TunnelID>
    <ClientName></ClientName>
    <DomainName></DomainName>
    <LinkProtocol></LinkProtocol>
    <SessionNum></SessionNum>
  </TunnelRunInfo>
</IPv4TunnelRunInfo>

```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv4TunnelRunInfo
Table type	Multi-instance table
Row name	TunnelRunInfo

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
ClientName	Name of the VAM client bound to the tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	Domain name of the VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
LinkProtocol	Link layer protocol for the ADVPN tunnel	N/A	Enumeration: 0—Unknown 1—GRE 2—UDP 3—IPsec-GRE 4—IPsec-UDP	N/A
SessionNum	Number of ADVPN tunnels established on the tunnel interface	N/A	Unsigned integer	N/A

IPv6AdvpnTunnelRunInfo

This table displays the IPv6 interface information.

XML structure

```

<IPv6TunnelRunInfo>
  <TunnelRunInfo>
    <TunnelID></TunnelID>
    <ClientName></ClientName>
    <DomainName></DomainName>
    <LinkProtocol></LinkProtocol>
    <SessionNum></SessionNum>
  </TunnelRunInfo>
</IPv6TunnelRunInfo>

```

Table description

Item	Description
Feature name	ADVPN
Table name	IPv6TunnelRunInfo
Table type	Multi-instance table
Row name	TunnelRunInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A
ClientName	Name of the VAM client bound to the tunnel interface	N/A	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	Domain name of the VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
LinkProtocol	Link layer protocol for the ADVPN tunnel	N/A	Enumeration: 0—Unknown 1—GRE 2—UDP 3—IPsec-GRE 4—IPsec-UDP	N/A
SessionNum	Number of ADVPN tunnels established on the tunnel interface	N/A	Unsigned integer	N/A

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Columns	8

AFT

AFT/AftEnable

This table contains informations about AFT enabling switch on the interface.

XML structure

```
<AFT>
  <AftEnable>
    <Interface>
      <IfIndex></IfIndex>
      <EnableSwitch></EnableSwitch>
    </Interface>
  </AftEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftEnable
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can see the XSD document of your product. For more information about IfIndex, you can reference "Appendix" in Ifmgr NETCONF XML API Configuration document.
EnableSwitch	Whether enable AFT on the	N/A	Boolean:	N/A

	interface		- true—YES - false—NO(default).	
--	-----------	--	--	--

AFT/AftLogEnable

This table contains information about AFT logging switch

XML structure

```
<AFT>
  <AftLogEnable>
    <EnableSwitch></EnableSwitch>
  </AftLogEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT logging	N/A	Boolean: - true—YES - false—NO(default).

AFT/AftFlowBegin

This table contains information about AFT flow begin enabling switch

XML structure

```
<AFT>
  <AftFlowBegin>
    <EnableSwitch></EnableSwitch>
  </AftFlowBegin>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowBegin
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-begin logging	N/A	Boolean: - true—YES - false—NO(default).

AFT/AftFlowEnd

This table contains information about AFT flow end enabling switch

XML structure

```
<AFT>
  <AftFlowEnd>
    <EnableSwitch></EnableSwitch>
  </AftFlowEnd>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowEnd
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-end logging	N/A	Boolean: - true—YES - false—NO(default).

AFT/AftPrefixNat64

This table contains information about AFT NAT64 prefix

XML structure

```
<AFT>
  <AftPrefixNat64>
    <PrefixNat64>
      <Ipv6Prefix></Ipv6Prefix>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PrefixNat64>
  </AftPrefixNat64>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPrefixNat64
Table type	Multi-instance table
Row name	PrefixNat64

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	IPv6 NAT64 prefix	Index	IPv6: Hexadecimal string, colon-separated.	Example: 1000::
Ipv6PrefixLength	IPv6 NAT64 prefix length	Index	Unsigned integer. Value range:32,40,48,56,64,96.	N/A

AFT/AftAddressGroup

This table contains information about AFT address groups.

XML structure

```

<AFT>
  <AftAddressGroup>
    <GroupNumbers>
      <GroupNumber></GroupNumber>
    </GroupNumbers>
  </AftAddressGroup>
</AFT>

```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroup
Table type	Muti-instance table
Row name	GroupNumbers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	AFT address group number	Index	Unsigned integer. Value range: 0 to 65535.

AFT/AftAddressGroupMember

This table contains information about AFT address group members.

XML structure

```
<AFT>
  <AftAddressGroupMember>
    <GroupMembers>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMembers>
  </AftAddressGroupMember>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroupMember
Table type	Multi-instance table
Row name	GroupMembers
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group	Index	IPv4: String, dotted decimal notation.	The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i> . If

	member			they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	N/A

AFT/AftV6toV4SrcDynamicAcl

This table contains information about AFT IPv6 to IPv4 source dynamic acl rules.

XML structure

```

<AFT>
  <AftV6toV4SrcDynamicAcl>
    <RuleNumbers>
      <Ipv6Acl></Ipv6Acl>
      <Type></Type>
      <AddressGroup></AddressGroup>
      <IfIndex></IfIndex>
      <AddrGrpType></AddrGrpType>
      <PortBlockSize></PortBlockSize>
      <Ipv4VpnName></Ipv4VpnName>
    </RuleNumbers>
  </AftV6toV4SrcDynamicAcl>
</AFT>

```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4SrcDynamicAcl
Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Acl	Ipv6Acl name or number	Index	String, case-insensitive. Must start with a-z or A-Z, the word “all” can not be used as name. or the acl number Value range: 2000 to 3999. Length: 1 to 63 characters..	N/A
Type	Address group or easy ip	N/A	Enumeration: 0—address group. 1—easy ip.	N/A
AddressGroup	Address group number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
AddrGrpType	Address group type:pat or nopat	N/A	Enumeration: 0—NPt. 1—PT	N/A
PortBlockSize	Whether to use port block	N/A	Unsigned integer. Value range: 100 to 64512.	Can be empty
Ipv4VpnName	Whether to use vpn	N/A	String. Length:1 to 31 characters	Can be empty

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Table description	7
Columns	7

AFT

AFT/AftEnable

This table contains informations about AFT enable switch on the interface.

XML structure

```
<AFT>
  <AftEnable>
    <Interface>
      <IfIndex></IfIndex>
      <EnableSwitch></EnableSwitch>
    </Interface>
  </AftEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftEnable
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
EnableSwitch	Whether enable AFT on the inerface	N/A	Boolean: - true—YES - false—NO	N/A

AFT/AftLogEnable

This table contains informations about AFT log enable switch

XML structure

```
<AFT>
  <AftLogEnable>
    <EnableSwitch></EnableSwitch>
  </AftLogEnable>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftLogEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT log	N/A	Boolean: - true—YES - false—NO

AFT/AftFlowBegin

This table contains informations about AFT flow begin enable switch

XML structure

```
<AFT>
  <AftFlowBegin>
    <EnableSwitch></EnableSwitch>
  </AftFlowBegin>
</AFT>
```

</AFT>

Table description

Item	Description
Feature name	AFT
Table name	AftFlowBegin
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-begin log	N/A	Boolean: - true—YES - false—NO

AFT/AftFlowEnd

This table contains informations about AFT flow end enable switch

XML structure

```
<AFT>
  <AftFlowEnd>
    <EnableSwitch></EnableSwitch>
  </AftFlowEnd>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftFlowEnd
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT flow-end log	N/A	Boolean: - true—YES - false—NO

AFT/AftPrefixNat64

This table contains informations about AFT nat64 prefix

XML structure

```
<AFT>
  <AftPrefixNat64>
    <PrefixNat64>
      <Ipv6Prefix></Ipv6Prefix>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PrefixNat64>
  </AftPrefixNat64>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftPrefixNat64
Table type	Multi-instance table
Row name	PrefixNat64
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	Ipv6 nat64 prefix	index	IPv6: Hexadecimal string, colon-separated.	Example: 1000::
Ipv6PrefixLength	Ipv6 nat64 prefix length	index	Unsigned integer. Value range:32、40、48、56、64、96.	N/A

AFT/AftAddressGroup

This table contains informations about AFT address groups.

XML structure

```
<AFT>
  <AftAddressGroup>
    <GroupNumbers>
      <GroupNumber></GroupNumber>
    </GroupNumbers>
  </AftAddressGroup>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroup
Table type	Muti-instance table
Row name	GroupNumbers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	AFT address group number	Index	Unsigned integer. Value range: 0 to 65535.

AFT/AftAddressGroupMember

This table contains informations about AFT address group members.

XML structure

```
<AFT>
  <AftAddressGroupMember>
    <GroupMembers>
```

```

    <GroupNumber></GroupNumber>
    <StartIpv4Address></StartIpv4Address>
    <EndIpv4Address></EndIpv4Address>
  </GroupMembers>
</AftAddressGroupMember>
</AFT>

```

Table description

Item	Description
Feature name	AFT
Table name	AftAddressGroupMember
Table type	Multi-instance table
Row name	GroupMembers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i>. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	N/A

AFT/AftV6toV4SrcDynamicAcl

This table contains the aft ipv6 to ipv4 source dynamic acl rules.

XML structure

```
<AFT>
  <AftV6toV4SrcDynamicAcl>
    <RuleNumbers>
      <Ipv6Acl></Ipv6Acl>
      <Type></Type>
      <AddressGroup></AddressGroup>
      <IfIndex></IfIndex>
      <AddrGrpType></AddrGrpType>
      <PortBlockSize></PortBlockSize>
      <Ipv4VpnName></Ipv4VpnName>
    </RuleNumbers>
  </AftV6toV4SrcDynamicAcl>
</AFT>
```

Table description

Item	Description
Feature name	AFT
Table name	AftV6toV4SrcDynamicAcl
Table type	Multi-instance table
Row name	RuleNumbers
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Acl	Ipv6Acl name or number	Index	String, case-insensitive. Must start with a-z or A-Z, the word “all” can not be used as name. or the acl number Value range: 2000 to 3999. Length: 1 to 63 characters..	N/A
Type	Address group or easy ip	N/A	Enumeration: 0—address group. 1—easy ip.	N/A
AddressGroup	Address group number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can reference the XSD document of your product. For more information about

				IfIndex, you can reference “Appendix” in Ifmgr NETCONF XML API Configuration document.
AddrGrpType	Address group type:pat or nopat	N/A	Enumeration: • 0—NPt. • 1—PT	N/A
PortBlockSize	Whether to use port block	N/A	Unsigned integer. Value range: 100 to 64512.	Can be empty
Ipv4VpnName	Whether to use vpn	N/A	String. Length:1 to 31 characters	Can be empty

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Resource Summary for AFT

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
AftEnable	/api/v1/AFT/AftEnable	Y	Y	Y	Y
AftLogEnable	/api/v1/AFT/AftLogEnable	Y	N	Y	Y
AftFlowBegin	/api/v1/AFT/AftFlowBegin	Y	N	Y	Y
AftFlowEnd	/api/v1/AFT/AftFlowEnd	Y	N	Y	Y
AftPrefixNat64	/api/v1/AFT/AftPrefixNat64	Y	Y	N	Y
AftAddressGroup	/api/v1/AFT/AftAddressGroup	Y	Y	N	Y
AftAddressGroupMember	/api/v1/AFT/AftAddressGroupMember	Y	Y	N	Y
AftV6toV4SrcDynamicAcl	/api/v1/AFT/AftV6toV4SrcDynamicAcl	Y	Y	Y	Y

AFT

AftEnable

This table contains informations about AFT enabling switch on the interface.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	Index	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can see the XSD document of your product. For more information about IfIndex, you can reference "Appendix" in Ifmgr NETCONF XML API Configuration document.
EnableSwitch	Whether enable AFT on the	N/A	Boolean:	N/A

	interface		• true—YES • false—NO	
--	-----------	--	--	--

Example

Example 1: Get data form resource AftEnable.

JSON Request

GET /api/v1/AFT/AftEnable

JSON Response

200 OK

```
{
  "AftEnable": [
    {
      "IfIndex": 2,
      "AftEnableSwitch": true
    },
    {
      "IfIndex": 3,
      "AftEnableSwitch": true
    }
  ]
}
```

Example 2: Get data form resource AftEnable.

JSON Request

GET /api/v1/AFT/AftEnable?index=IfIndex=2

JSON Response

200 OK

```
{
  "IfIndex": 2,
  "AftEnableSwitch": true
}
```

Example 3: Change the value of EnableSwitch for the AftEnable.

JSON Request

PUT /api/v1/Bridge/Base?index=IfIndex=3

```
{
  "IfIndex": "3",
  "AftEnableSwitch": "false"
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource AftEnable.

JSON Request

DELETE /api/v1/AFT/AftEnable?index=IfIndex=2

JSON Response

204 No Content

AftLogEnable

This table contains informations about AFT log enable switch

Properties

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable AFT log	N/A	Boolean: - true—YES - false—NO

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AFT/AftLogEnable

JSON Response

200 OK

```
{
```



```
"EnableSwitch" : "True"
}
```

Example 2: Change the value of EnableSwitch for IfIndex1.

JSON Request

PUT /api/v1/AFT/AftLogEnable

```
{
"EnableSwitch" : "false"
}
```

JSON Response

204 No Content

Example 3: Delete the assigned instance from resource AftLogEnable.

JSON Request

DELETE /api/v1/AFT/AftLogEnable

JSON Response

204 No Content

AftFlowBegin

This table contains informations about AFT flow begin enable switch

Properties

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether eanble AFT flow-begin log	N/A	Boolean: - true—YES - false—NO

Example

Example 1: Get data form resource AftFlowBegin

JSON Request

GET /api/v1/AFT/AftFlowBegin

JSON Response

200 OK

```
{  
  "EnableSwitch" : "true"  
}
```

Example 2: Change the value of EnableSwitch for AftFlowBegin.

JSON Request

PUT /api/v1/AFT/AftFlowBegin

```
{  
  "EnableSwitch" : "false"  
}
```

JSON Response

204 No Content

Example 3: Delete the assigned instance from resource AftFlowBegin.

JSON Request

DELETE /api/v1/AFT/AftFlowBegin

JSON Response

204 No Content

AftFlowEnd

This table contains informations about AFT flow end enable switch

Properties

Column name	Column description	Column type	Data type and restrictions
EnableSwitch	Whether enable	N/A	Boolean:

	AFT flow-end log		• true—YES • false—NO
--	------------------	--	--

Example

Example 1: Get data form resource AftFlowEnd.

JSON Request

GET /api/v1/AFT/AftFlowEnd

JSON Response

200 OK

```
{
  "EnableSwitch" : "true"
}
```

Example 2: Change the value of EnableSwitch for AftFlowEnd.

JSON Request

PUT /api/v1/AFT/AftFlowEnd

```
{
  "EnableSwitch" : "true"
}
```

JSON Response

204 No Content

Example 3: Delete the assigned instance from resource AftFlowEnd.

JSON Request

DELETE /api/v1/AFT/AftFlowEnd

JSON Response

204 No Content

AftPrefixNat64

This table contains informations about AFT nat64 prefix

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	Ipv6 nat64 prefix	index	IPv6: Hexadecimal string, colon-separated.	Example: 1000::
Ipv6PrefixLength	Ipv6 nat64 prefix length	index	Unsigned integer. Value range:32、 40、 48、 56、 64、 96.	N/A

Example

Example 1: Get data form resource AftPrefixNat64.

JSON Request

GET /api/v1/AFT/AftPrefixNat64

JSON Response

200 OK

```
{"AftEnable": [
  {
    "Ipv6Prefix": "1000::",
    "Ipv6PrefixLength": 32
  },
  {
    "Ipv6Prefix": "1000::",
    "Ipv6PrefixLength": 64
  }
]}
```

Example 2: Add new Instance for resource AftPrefixNat64.

JSON Request

POST /api/v1/AFT/AftPrefixNat64

```
{
  "Ipv6Prefix" : "2000::",
```

```
"Ipv6PrefixLength" : "32"
}
```

JSON Response

201 Created

Example 3: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AFT/AftPrefixNat64?index=Ipv6Prefix=1000::,Ipv6PrefixLength=32

JSON Response

204 No Content

AftAddressGroup

This table contains informations about AFT address groups.

Properties

Column name	Column description	Column type	Data type and restrictions
GroupNumber	AFT address group number	index	Unsigned integer. Value range: 0 to 65535.

Example

Example 1: Get data form resource AftAddressGroup.

JSON Request

GET /api/v1/AFT/AftAddressGroup

JSON Response

200 OK

```
{
  "GroupNumber" : "1"
}
```

Example 2: Add new Instance for resource AftAddressGroup.

JSON Request

POST /api/v1/AFT/AftAddressGroup

```
{  
  "GroupNumber" : "2"  
}
```

JSON Response

201 Created

Example 3: Delete the assigned instance from resource AftAddressGroup.

JSON Request

DELETE /api/v1/Feature/Table?index=GroupNumber=2

JSON Response

204 No Content

AftAddressGroupMember

This table contains informations about AFT address group members.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Address group number	index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i>. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an

				address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	IPv4: String, dotted decimal notation.	N/A

Example

Example 1: Get data form resource AftAddressGroupMember.

JSON Request

GET /api/v1/AFT/AftAddressGroupMember?index=GroupNumber=2

JSON Response

200 OK

```
{
  "GroupNumber" : "2"
  " StartIpv4Address " : "1.1.1.1"
  " EndIpv4Address " : "1.1.1.2"
}
```

Example 2: Add new Instance for resource AftAddressGroupMember.

JSON Request

POST /api/v1/AFT/AftAddressGroupMember?index=GroupNumber=3

```
{
  "GroupNumber" : "3",
  " StartIpv4Address " : "1.1.1.3",
  " EndIpv4Address " : "1.1.1.4"
}
```

JSON Response

201 Created

Example 3: Delete the assigned instance from resource AftAddressGroupMember .

JSON Request

DELETE /api/v1/AFT/AftAddressGroupMember?index=GroupNumber=3,StartIpv4Address=1.1.1.3,EndIpv4Address=1.1.1.4

JSON Response

204 No Content

AftV6toV4SrcDynamicAcl

This table contains the aft ipv6 to ipv4 source dynamic acl rules.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Acl	IPv6ACL name or number	index	ACLname: string, case-insensitive. Must start with a-z or A-Z, the word "all" can not be used as name. Length: 1 to 63 characters. ACLnumber: Value range: 2000 to 3999.	N/A
Type	Address group or easy IP	N/A	Enumeration: 0—Address group. 1—Easy IP.	N/A
AddressGroup	Address group number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
IfIndex	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	Some versions support interface name. For relevant information, you can see the XSD document of your product. For more information about IfIndex, you can reference "Appendix" in Ifmgr NETCONF XML API Configuration document.
AddrGrpType	Address group type	N/A	Enumeration: 0—NoPAT. 1—PAT	N/A
PortBlockSize	Whether to use port block	N/A	Unsigned integer. Value range: 100 to 64512.	Can be empty
Ipv4VpnNam	Whether to apply	N/A	String.	Can be empty

e	the rule to vpn		Length:1 to 31 characters	
---	-----------------	--	---------------------------	--

Example

Example 1: Get data form resource AftV6toV4SrcDynamicAcl.

JSON Request

GET /api/v1/AFT/AftV6toV4SrcDynamicAcl?index=Ipv6Acl=2000

JSON Response

200 OK

```
{
  "Ipv6Acl" : "2000"
  "Type" : "0"
  "AddressGroup" : "2"
  "IfIndex" : ""
  " AddrGrpType" : "0"
  " PortBlockSize " : ""
  " Ipv4VpnName" : ""
}
```

Example 2: Add new Instance for resource AftV6toV4SrcDynamicAcl.

JSON Request

POST /api/v1/AFT/AftV6toV4SrcDynamicAcl

```
{
  "Ipv6Acl" : "2000",
  "Type" : "0",
  "AddressGroup" : "2",
  "IfIndex" : "",
  " AddrGrpType" : "0",
  " PortBlockSize " : "",
  " Ipv4VpnName" : ""
}
```

JSON Response

201 Created

Example 3: Change the value of AddressGroup for the instance Ipv6Acl2000.

JSON Request

PUT /api/v1/AFT/AftV6toV4SrcDynamicAcl?index=Ipv6Acl=2000

```
{  
  "AddressGroup" : "3"  
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource AftV6toV4SrcDynamicAcl.

JSON Request

DELETE /api/v1/Feature/Table?index=Ipv6Acl=2000

JSON Response

204 No Content

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XML structure	2
Table description	2
Columns	3

AntiVirus

AntiVirus/SignatureManualUpgrading

This table contains the information of AntiVirus signatures manual upgrade.

XML structure

```
<AntiVirus>
  <SignatureManualUpgrading>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL the upgrade signature file.	N/A	String: case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 character.	N/A
Location	The Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file after the signature library update is complete.

AntiVirus/SignatureAutoUpgradeNow

This table contains the information of AntiVirus signatures upgrade at once.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgrade>
    <UpgradeNow></UpgradeNow>
  </SignatureAutoUpgrade>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UpgradeNow	Auto upgrade at once.	N/A	This column must be empty.	N/A

AntiVirus/SignatureRollback

This table contains the information of AntiVirus signatures rollback.

XML structure

```
<AntiVirus>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureRollback
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	rollback	N/A	Boolean: • true: rollback last version • false: rollback original version	N/A

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XML structure	4
Table description	4
Columns	4
AntiVirus/ ActionDefaultParameters	5
XML structure	5
Table description	5
Columns	5
AntiVirus/RuleInPolicySigID	6
XML structure	6
Table description	6
Columns	6

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
    </Policy>
  </Policies>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Description	Description of the policy	N/A	String: case-sensitive Length: 1 to 255 characters	N/A

AntiVirus/PolicyInProfile

This table contains AntiVirus policy applied to the profile.

XML structure

```
<AntiVirus>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String: case-insensitive Length: 1 to 100 characters	N/A
PolicyName	Name of the policy	N/A	String: case-insensitive Length: 1 to 63 characters	N/A

AntiVirus/RuleInPolicy

This table contains the information of rules in an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <Protocol>
        <ProtocolName></ProtocolName>
        <Direction></Direction>
```

```

        <Action></Action>
    </Protocol>
    <Application>
        <AppName></AppName>
        <Action></Action>
    </Application>
</Policy>
</RuleInPolicy>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Protocol	Protocol configuration	Data Structure	Members include: - ProtocolName - Direction - Action	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive "HTTP" "FTP" "SMTP" "POP3" "IMAP"	N/A
Direction	Direction of protocol traffic	N/A	Enumeration: 0—upload 1—download 2—both	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: 1—Alert 2—block 3—redirect	N/A
Application	Application	Data	Members include:	N/A

	configuration	Structure	• AppName • Action	
AppName	Application name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Actions for the specified application	N/A	Enumeration: • 1—Alert • 2—block • 3—permit	N/A

AntiVirus/SignatureAutoUpgrading

This table contains the information of AntiVirus signatures auto upgrading.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgrading
Table type	Single -instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time	Default is 03:01:00, HH:MM:SS

Type	Type of the system auto upgrading	N/A	Enumeration: 0—Week 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer: Value range:0-15	When Type is 0 , the value range is 0 to 6. Otherwise, the value range is 1 to 15,default is 3.

AntiVirus/ ActionDefaultParameters

This table contains Antivirus action default parameter information.

XML structure

```

<AntiVirus>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	action	Index	Enumeration: 1—Block 2—Capture 3—Logging 4—Redirect 5—Mail	N/A

ParameterName	Parameter-Name	N/A	String: case-insensitive Length: 1 to 63 characters	Quote Module DIM table, If Action is block, The ParameterName is quote the table DIM/BlockParameters.
---------------	----------------	-----	--	---

AntiVirus/RuleInPolicySigID

This table contains the Exception sigs information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicySigID>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionSigID></ExceptionSigID>
    </Policy>
  </RuleInPolicySigID>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicySigID
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
ExceptionSigID	ID of the virus	Index	Unsigned integer: Value range:1~536870910	N/A

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XML structure	5
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Table description	6
Columns	6
AntiVirus/SignatureAutoUpgrading	6
XML structure	6
Table description	7
Columns	7
AntiVirus/ActionDefaultParameters	7
XML structure	7
Table description	8
Columns	8
AntiVirus/RuleInPolicySigID	8
XML structure	8
Table description	9
Columns	9

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
    </Policy>
  </Policies>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Description	Description of the policy	N/A	String: case-sensitive Length: 1 to 255 characters	N/A

AntiVirus/PolicyInProfile

This table contains AntiVirus policy applied to the profile.

XML structure

```
<AntiVirus>
```

```

<PolicyInProfile>
  <Profile>
    <ProfileName></ProfileName>
    <PolicyName></PolicyName>
  </Profile>
</PolicyInProfile>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String: case-insensitive Length: 1 to 100 characters	N/A
PolicyName	Name of the policy	N/A	String: case-insensitive Length: 1 to 63 characters	N/A

AntiVirus/RuleInPolicy

This table contains the information of rules in an AntiVirus policy.

XML structure

```

<AntiVirus>
  <RuleInPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <Protocol>
        <ProtocolName></ProtocolName>
        <Direction></Direction>
        <Action></Action>
      </Protocol>
      <Application>
        <AppName></AppName>
        <Action></Action>
      </Application>
    </Policy>
  </RuleInPolicy>
</AntiVirus>

```



```

    </Application>
  </Policy>
</RuleInPolicy>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Protocol	Protocol configuration	Data Structure	Members include: - ProtocolName - Direction - Action	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive "HTTP" "FTP" "SMTP" "POP3" "IMAP"	N/A
Direction	Direction of protocol traffic	N/A	Enumeration: 0—upload 1—download 2—both	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: 1—Alert 2—block 3—redirect	N/A
Application	Application configuration	Data Structure	Members include: - AppName - Action	N/A
AppName	Application name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Actions for the specified	N/A	Enumeration: 1—Alert	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	application		2—block 3—permit	

AntiVirus/Signatures

This table contains the pre-defined rules information of an AntiVirus policy.

XML structure

```

<AntiVirus>
  <Signatures>
    <Signature>
      <SignatureID></SignatureID>
      <Severity></Severity>
      <SignatureName></SignatureName>
    </Signature>
  </Signatures>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	Signatures
Table type	Multi-instance table
Row name	Signature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SignatureID	ID of the virus	Index	Unsigned integer: Value range:1~536870910	From signature file.
Severity	Severity of the virus	N/A	Enumeration: 1—Critical 2—High 3—Minor 4—Low.	From signature file.
SignatureName	Name of the virus	N/A	String: case-insensitive Length: 1 to 127 characters	From signature file.

AntiVirus/SignatureFileInfos

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <SignatureFileInfos>
    <FileInfo>
      <Version></Version>
      <FileName></FileName>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
    </FileInfo>
  </SignatureFileInfos>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureFileInfos
Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	signature file version	Index	Enumeration: • 1—current • 2—latest • 3—factory	N/A
FileName	Name of the signature file	N/A	String: case-insensitive Length: 1 to 31 characters	v.v(2.1)
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Consider time-zone
Updates	Updating Information	N/A	String: case-insensitive Length: 1 to 255 characters	N/A

AntiVirus/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<AntiVirus>
  <UpdatePercentage>
    <Percentage></Percentage>
  </UpdatePercentage>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	UpdatePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	the percentage of update	N/A	Unsigned integer Value range:0-100	When the value range is 0 to 100,it means in upgrading, Otherwise, means error

AntiVirus/SignatureAutoUpgrading

This table contains the information of AntiVirus signatures auto upgrading.

XML structure

```
<AntiVirus>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: - true - false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time	Default is 03:01:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: 0—Week 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer: Value range:0-15	When Type is 0 , the value range is 0 to 6. Otherwise, the value range is 1 to 15,default is 3.

AntiVirus/ActionDefaultParameters

This table contains Antivirus action default parameter information.

XML structure

```
<AntiVirus>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	action	Index	Enumeration: • 1—Block • 2—Capture • 3—Logging • 4—Redirect • 5—Mail	N/A
ParameterName	Parameter-Name	N/A	String: case-insensitive Length: 1 to 63 characters	Quote Module DIM table, If Action is block, The ParameterName is quote the table DIM/BlockParameters .

AntiVirus/RuleInPolicySigID

This table contains the Exception sigs information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicySigID>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionSigID></ExceptionSigID>
    </Policy>
  </RuleInPolicySigID>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicySigID
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
ExceptionSigID	ID of the virus	Index	Unsigned integer: Value range:1~536870910	N/A

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Resource Summary for AntiVirus

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policies	/api/v1/AntiVirus/Policies	Y	Y	Y	Y
PolicyInProfile	/api/v1/AntiVirus/PolicyInProfile	Y	Y	Y	Y
RuleInPolicy	/api/v1/AntiVirus/RuleInPolicy	Y	Y	Y	Y
Signatures	/api/v1/AntiVirus/Signatures	Y	N	N	N
SignatureFileInfos	/api/v1/AntiVirus/SignatureFileInfos	Y	N	N	N
UpdatePercentage	/api/v1/AntiVirus/UpdatePercentage	Y	N	N	N
SignatureAutoUpgrading	/api/v1/AntiVirus/SignatureAutoUpgrading	Y	N	Y	Y
ActionDefaultParameters	/api/v1/AntiVirus/ActionDefaultParameters	Y	Y	Y	Y
RuleInPolicySigID	/api/v1/AntiVirus/RuleInPolicySigID	Y	Y	N	Y

AntiVirus

Policies

This table contains the information about the policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Description	Description of the policy	N/A	String: case-sensitive Length: 1 to 255 characters	N/A

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/Policies?index=PolicyName%3D1

JSON Response

200 OK

```
{
  "Policies":
  [{
    "PolicyName": "1",
    "Description": "abc"
  }]
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/AntiVirus/Policies

```
{
  "Policies":
  [{
    "PolicyName": "2",
    "Description": "abc"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/AntiVirus/Policies?index=PolicyName%3D2

```
{
  "Policies":
  [{
    "PolicyName": "2",
    "Description": "123"
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/Policies?index=PolicyName%3D2

JSON Response

204 No Content

PolicyInProfile

This table contains AntiVirus policy applied to the profile.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String: case-insensitive Length: 1 to 100 characters	N/A
PolicyName	Name of the policy	N/A	String: case-insensitive Length: 1 to 63 characters	N/A

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/PolicyInProfile?index=ProfileName%3D1

JSON Response

200 OK

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "1",
    "PolicyName": "policy 1"
  }]
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/AntiVirus/PolicyInProfile

```
{
  "PolicyInProfile":
  [{
    "ProfileName":"2",
    "PolicyName":"policy 2"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of PolicyName for the assigned instance.

JSON Request

PUT /api/v1/AntiVirus/PolicyInProfile?index=ProfileName%3D2

```
{
  "PolicyInProfile":
  [{
    "ProfileName":"2",
    "PolicyName":"policy 3"
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/PolicyInProfile?index=ProfileName%3D2

JSON Response

204 No Content

RuleInPolicy

This table contains the information of rules in an AntiVirus policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Protocol	Protocol configuration	Data Structure	Members include: • ProtocolName • Direction • Action	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive • "HTTP" • "FTP" • "SMTP" • "POP3" • "IMAP"	N/A
Direction	Direction of protocol traffic	N/A	Enumeration: • 0—upload • 1—download • 2—both	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: • 1—Alert • 2—block • 3—redirect	N/A
Application	Application configuration	Data Structure	Members include: • AppName • Action	N/A
AppName	Application name	N/A	String: case-insensitive Length: 1 to 63 characters	N/A
Action	Actions for the specified application	N/A	Enumeration: • 1—Alert • 2—block • 3—permit	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/AntiVirus/RuleInPolicy?index=PolicyName%3D1

JSON Response

200 OK

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "1",
    "Protocol":
    [{
      "ProtocolName": "http",
      "Direction": 0,
      "Action": 1
    },
    {
      "ProtocolName": "ftp",
      "Direction": 0,
      "Action": 1
    },
    {
      "ProtocolName": "smtp",
      "Direction": 0,
      "Action": 2
    },
    {
      "ProtocolName": "pop3",
      "Direction": 1,
      "Action": 2
    }
  ]},
  "Application":
  [{
    "AppName": "12530WAP",
    "Action": 2
  }]
}]
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/AntiVirus/RuleInPolicy

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "2",
    "Protocol":
    [{
      "ProtocolName": "pop3",
      "Direction": 1,
      "Action": 2
    }],
    "Application":
    [{
      "AppName": "12530WAP",
      "Action": 2
    }]
  }]
}
```

JSON Response

201 Created

Example 3: Change the value for the assigned instance.

JSON Request

PUT /api/v1/AntiVirus/RuleInPolicy?index=PolicyName%3D2

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "2",
    "Protocol":
    [{
      "ProtocolName": "pop3",
      "Direction": 2,
      "Action": 3
    }],
    "Application":
    [{
      "AppName": "12530WAP",
      "Action": 4
    }]
  }]
}
```

```

    }
  }
}

```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/RuleInPolicy?index=PolicyName%3D2

JSON Response

204 No Content

Signatures

This table contains the pre-defined rules information of an AntiVirus policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
SignatureID	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	From signature file.
Severity	Description of the policy	N/A	String: case-insensitive Length: 1 to 63 characters	From signature file.
SignatureName	Name of the virus	N/A	String: case-insensitive Length: 1 to 127 characters.	From signature file.

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/Signatures?index=SignatureID%3D1

JSON Response

200 OK

```

{
  "Signatures":

```



```

[[
  "SignatureID":1,
  "Severity":3,
  "SignatureName":"Trojan-Downloader.Win32.Genome"
]]
}

```

SignatureFileInfos

This table contains AntiVirus policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	signature file version	Index	Enumeration: • 1—current • 2—latest • 3—factory	N/A
FileName	Name of the signature file	N/A	String: case-insensitive Length: 1 to 31 characters	v.v(2.1)
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Consider time-zone
Updates	Updating Information	N/A	String: case-insensitive Length: 1 to 255 characters	N/A

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/SignatureFileInfos?index=Version%3D1

JSON Response

200 OK

```

{
  "SignatureFileInfos":
  [[
    "Version":1,
    "FileName":"1.0.0",
    "PublishedTime":"1999-12-31T16:00:00",

```

```

    "Updates": "1.0.0"
  }
}

```

UpdatePercentage

This table contains the percentage of update.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	the percentage of update	N/A	Unsigned integer Value range:0-100	When the value range is 0 to 100,it means in upgrading, Otherwise, means error

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/UpdatePercentage

JSON Response

200 OK

```

{
  Policies:
  [{
    "Percentage":100
  }]
}

```

SignatureAutoUpgrading

This table contains the information of AntiVirus signatures auto upgrading.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: • true • false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time	Default is 03:01:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: • 0—Week • 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer: Value range:0-15	When Type is 0 , the value range is 0 to 6. Otherwise, the value range is 1 to 15,default is 3.

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/SignatureAutoUpgrading

JSON Response

200 OK

```
{
  "SignatureAutoUpgrading":
  [{
    "Enabled":"true",
    "StartTime":"02:00:00",
    "Type":"1",
    "Day":"1"
  }]
}
```

Example 2: Change the value for the assigned instance.

JSON Request

PUT /api/v1/AntiVirus/SignatureAutoUpgrading

```
{
```

```

"SignatureAutoUpgrading":
[
  {
    "Enabled": "true",
    "StartTime": "03:00:00",
    "Type": "1",
    "Day": "2"
  }
]
}

```

JSON Response

204 No Content

Example 3: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/SignatureAutoUpgrading

JSON Response

204 No Content

ActionDefaultParameters

This table contains Antivirus action default parameter information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	action	Index	Enumeration: 1—Block 2—Capture 3—Logging 4—Redirect 5—Mail	N/A
ParameterName	Parameter Name	N/A	String: case-insensitive Length: 1 to 63 characters	Quote Module DIM table, If Action is block, The ParameterName is quote the table DIM/BlockParameters.

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/ActionDefaultParameters?index=Action%3D4

JSON Response

200 OK

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
    "ParameterName":"av_redirect_default_parameter"
  }]
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/AntiVirus/ActionDefaultParameters

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
    "ParameterName":"av_redirect_parameter1"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/AntiVirus/ActionDefaultParameters?index=Action%3D4

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
```

```

        "ParameterName": "av_redirect_parameter2"
    }
}

```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/ActionDefaultParameters?index=Action%3D4

JSON Response

204 No Content

RuleInPolicySigID

This table contains the Exception sigs information of an AntiVirus policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String: case-insensitive Length: 1 to 63 characters	N/A
ExceptionSigID	ID of the virus	Index	Unsigned integer: Value range:1~536870910	N/A

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/AntiVirus/RuleInPolicySigID

JSON Response

200 OK

```

{
  "RuleInPolicySigID":
  [
    {
      "PolicyName": "1",

```

```
    "ExceptionSigID ":1001
  }
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/AntiVirus/RuleInPolicySigID

```
{
  "RuleInPolicySigID":
  [{
    "PolicyName":"2",
    "ExceptionSigID":1002
  }]
}
```

JSON Response

201 Created

Example 3: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/AntiVirus/Policies

JSON Response

204 No Content

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Columns	9

AP

AP/ResetAP

This table contains information of AP resetting.

XML structure

```
<AP>
  <ResetAP>
    <AP>
      <ApName></ApName>
    </AP>
  </ResetAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ResetAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.

AP/ResetAllAP

This table contains information of resetting all APs.

XML structure

```
<AP>
  <ResetAllAP>
    <Global>
```

```

        <ResetType></ResetType>
    </Global>
</ResetAllAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	ResetAllAP
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ResetType	Which type of APs will be reset.	Index	Enumeration: 1—All. 2—Unauthenticated.

AP/PersistentAP

This table contains information of AP persistence.

XML structure

```

<AP>
  <PersistentAP>
    <AP>
      <ApName></ApName>
    </AP>
  </PersistentAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PersistentAP
Table type	Multi-instance table
Row name	AP

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.

AP/RegroupAPByName

This table contains information of AP regrouping.

XML structure

```

<AP>
  <RegroupAPByName>
    <AP>
      <ApName></ApName>
      <GroupName></GroupName>
    </AP>
  </RegroupAPByName>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPByName
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/RegroupAPByMac

This table contains information of AP regrouping by MAC address.

XML structure

```
<AP>
  <RegroupAPByMac>
    <MAC>
      <MacAddress></MacAddress>
      <GroupName></GroupName>
    </MAC>
  </RegroupAPByMac>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPByMac
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	AP MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/RegroupAPBySerialID

This table contains information of AP regrouping by serial ID.

XML structure

```
<AP>
  <RegroupAPBySerialID>
    <SerialID>
      <SerialID></SerialID>
      <GroupName></GroupName>
    </SerialID>
  </RegroupAPBySerialID>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPBySerialID
Table type	Multi-instance table
Row name	SerialID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
GroupName	The name of AP group which the AP will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

AP/RegroupAPByGroup

This table contains information of AP regrouping by group.

XML structure

```
<AP>
  <RegroupAPByGroup>
    <Group>
```

```

        <OldGroupName></OldGroupName>
        <NewGroupName></NewGroupName>
    </Group>
</RegroupAPByGroup>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RegroupAPByGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OldGroupNa me	The name of old AP group.	Index	String, lowercase. Length: 1 to 31 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
NewGroupNa me	The name of AP group which the AP in old group will belong to.	N/A	String, lowercase. Length: 1 to 31 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.

AP/AuthenticateAP

This table contains information of authenticating APs.

XML structure

```

<AP>
  <AuthenticateAP>
    <AP>
      <ApName></ApName>
      <Action></Action>
    </AP>
  </AuthenticateAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	AuthenticateAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
Action	The authenticating action type.	N/A	Enumeration: • 1—Accept. • 2—Reject.	N/A

AP/AuthenticateAllAP

This table contains information of authenticating all APs.

XML structure

```
<AP>
  <AuthenticateAllAP>
    <Global>
      <Action></Action>
    </Global>
  </AuthenticateAllAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	AuthenticateAllAP
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Action	The authenticating action type.	N/A	Enumeration: • 1—Accept. • 2—Reject.

AP/ImportAuthenticateFile

This table contains information of importing authenticating file.

XML structure

```
<AP>
  <ImportAuthenticateFile>
    <FileName></FileName>
  </ImportAuthenticateFile>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ImportAuthenticateFile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	The TXT file name with full path which will be imported as the AP ACL rules for AP authentication.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Should end with ".txt" and specify the authentication ACL first.

AP/ProvisionAP

This table contains information of provisioning APs.

XML structure

```
<AP>
  <ProvisionAP>
    <AP>
      <ApName></ApName>
      <Action></Action>
    </AP>
  </ProvisionAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ProvisionAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
Action	The authenticating action type.	N/A	Enumeration: • 1—Provision. • 2—Reset provisioning.	N/A

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Columns	12
AP/EdcaRadio	13
XML structure	13
Table description	14
Columns	14
AP/RadioWmm	15
XML structure	15
Table description	15
Columns	15
AP/Radio11n	16
XML structure	16
Table description	16
Columns	17
AP/Radio11ac	18
XML structure	18
Table description	19
Columns	19
AP/APGroup	20
XML structure	20
Table description	20
Columns	21
AP/APGroupMACRule	22
XML structure	22
Table description	22
Columns	23
AP/APGroupSerialIDRule	23
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Columns	23
AP/APGroupNameRule	24
XML structure	24
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Columns	24
AP/APGroupIPv4Rule	24
XML structure	25
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AP/APGroupIPv6Rule	25
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AP/Location	38
XML structure	38
Table description	38
Columns	38
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XML structure	38
Table description	39
Columns	39

AP

AP/GlobalCfg

This table contains the informations of global.

XML structure

```
<AP>
  <GlobalCfg>
    <AutoAp></AutoAp>
    <AutoPersistent></AutoPersistent>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Priority></Priority>
    <Preempt></Preempt>
    <EchoInterval></EchoInterval>
    <EchoCount></EchoCount>
    <RetransInterval></RetransInterval>
    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <TunnelEncryption></TunnelEncryption>
  </GlobalCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoAp	Whether an AP can connect the AC without creating a manual AP.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
AutoPersistent	When an auto AP connects the AC , whether convert the AP to manual AP automatically.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AC is locked.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7. Default value is 4.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds Default value is 10 seconds.	N/A
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Default value is 3.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds Default value is 5 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds Default value is 6.	N/A
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 2 to 120 Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: - Enable - Disable Default value is disable.	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: - Enable - Disable	N/A

AP/ManualAP

This table contains manual AP information.

XML structure

```

<AP>
  <ManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <GroupName></GroupName>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>

```

```

    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <LocationName></LocationName>
    <Description></Description>
    <TunnelEncryption></TunnelEncryption>
  </AP>
</ManualAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	ManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
Model	AP model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Characters will be automatically convert case. Refer to AP/APDB. This column is mandatory when the row is being created. This column is not writable when the row is being deleted, removed. This column should not be changed when the row is being replaced or merged.

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgSerialID	Configured AP serial ID	N/A	String, uppercase. Length: 1 to 127 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
CfgMacAddress	Configured AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: true—Support. false—Not support.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds	N/A
EchoCount	The allowed maximum number of echo messges which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds	N/A
StatisInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 2 to 120 Default value is 50 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: - Enable - Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String,dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of AP.	N/A	String, Length: 1 to 64 cahracters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: - Enable - Disable	N/A

AP/RadioOfManualAP

This table contains radio information of manual AP.

XML structure

```

<AP>
  <RadioOfManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <ChannelAutoLock></ChannelAutoLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>

```

```

    <ProtectionThreshold></ProtectionThreshold>
    <ShortRetryThreshold></ShortRetryThreshold>
    <CfgChannel></CfgChannel>
    <CfgMaxPower></CfgMaxPower>
  </Radio>
</RadioOfManualAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioOfManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Radio status	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A
RateMulticast	Multicast rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateMandatory	Mandatory rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
Preamble	Preamble	N/A	Boolean: true—Short. false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power	N/A	Enumeration: 0—Disable 1—Enable 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChanneAutoLock	Lock the channel	N/A	Boolean: - true—ChanneAutoLock. - false—ChanneAutoUnLock. The default value is true.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number	N/A	Unsigned short. The value range conforms to "AP/ChannelDB/Supported ChannelList" column. If this column is not configured, the channel number will be calculated automatically.	N/A
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/PrvsOfManualAP

This table contains provision information of manual AP.

XML structure

```
<AP>
  <PrvsOfManualAP>
    <Prvs>
      <ApName></ApName>
      <AChostName></AChostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
      <GatewayIPv4></GatewayIPv4>
      <GatewayIPv6></GatewayIPv6>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Dot1xSupplAnonyIdent></Dot1xSupplAnonyIdent>
      <Dot1xSupplEapMethod></Dot1xSupplEapMethod>
      <Dot1xSupplEnable></Dot1xSupplEnable>
      <Dot1xSupplPasswdCiper></Dot1xSupplPasswdCiper>
      <Dot1xSupplPasswdSimple></Dot1xSupplPasswdSimple>
      <Dot1xSupplUsername></Dot1xSupplUsername>
    </Prvs>
  </PrvsOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAP
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1, 1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
GatewayIPv4	Specify a gateway by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
GatewayIPv6	Specify a gateway by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
IPv4Address	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Address	Specify an IPv6 address that the AP uses to establish a CAPWAP tunnel.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Dot1xSupplicantAnonyIdent	Specify an anonymous identifier for the supplicant.	N/A	String. Length: 1 to 253 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1xSupplEapMethod	Specify an EAP authentication method.	N/A	Enumeration: 1—md5 2—peap-gtc 3—peap-mschapv2 4—ttls-gtc 5—ttls-mschapv2	N/A
Dot1xSupplEnable	Enable the 802.1X supplicant feature.	N/A	Boolean: true—Enable. false—Disable.	N/A
Dot1xSupplPasswdCipher	Specify a ciphertext password for the 802.1X supplicant.	N/A	String. Length: 1 to 201 characters.	N/A
Dot1xSupplPasswdSimple	Specify a plaintext password for the 802.1X supplicant.	N/A	String. Length: 1 to 127 characters.	N/A
Dot1xSupplUsername	Specify a username for the 802.1X supplicant.	N/A	String. Length: 1 to 253 characters.	N/A

AP/EdcaRadio

This table contains radio EDCA information.

XML structure

```

<AP>
  <EdcaRadio>
    <EdcaPara>
      <ApName></ApName>
      <RadioID></RadioID>
      <AccessCategory></AccessCategory>
      <Noack></Noack>
      <CfgAifsn></CfgAifsn>
      <CfgEcwmin></CfgEcwmin>
      <CfgEcwmax></CfgEcwmax>
      <CfgTxOpLimit></CfgTxOpLimit>
    </EdcaPara>
  </EdcaRadio>
</AP>

```


Table description

Item	Description
Feature name	AP
Table name	EdcaRadio
Table type	Multi-instance table
Row name	EdcaPara
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length:1to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadiolD	Radio identifier.	Index	Unsigned short. Value range: 1 to 31.	N/A
AccessCategory	A label for the common set of enhanced distributed channel access parameters that are used by a WMM STA to contend for the channel in order to transmit MSDUs with certain priorities.	Index	Enumeration: 0—BK. 1—BE. 2—VI. 3—VO.	N/A
Noack	Whether acknowledgement is required.	N/A	Boolean: - true—Not required. - false—Required. The default value is false.	N/A
CfgAifsn	Arbitration Inter Frame Spacing Number.	N/A	The value range conforms to "AP/RadiolDB/Aifsn" column.	N/A
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to "AP/RadiolDB/Ecwmin" column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to "AP/RadiolDB/Ecwmax" column.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgTxOpLimit	Transmission opportunity limit.	N/A	The value range conforms to "AP/RadioIDB/TxOpLimit" column.	N/A

AP/RadioWmm

This table contains radio WMM information.

XML structure

```

<AP>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
    </Wmm>
  </RadioWmm>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WMM status of radio.	N/A	Boolean: - true—Enable. - false—Disable. The default value is true.	N/A

AP/Radio11n

This table contains radio 802.11n information.

XML structure

```

<AP>
  <Radio11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <Mimo></Mimo>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Protection></Protection>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></BandwidthAutoswitch >
    </Dot11n>
  </Radio11n>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Radio11n
Table type	Multi-instance table
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Stbc	STBC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: true—Enable. false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mimo	MIMO.	N/A	Enumeration: 1: 1X1 2: 2X2 3: 3X3 4: 4X4	N/A
Greenap	Green ap function.	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: 1: Auto 2: High-availability 3: High-throughput	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: true—Enable. false—Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: true—Enable. false—Disable. The column is only for 2.4GHz radio mode, and AP/RadiusOfManualAP/Bandwidth must be 2..	N/A

AP/Radius11ac

This table contains radio 802.11ac information.

XML structure

```

<AP>
  <Radius11ac>
    <Dot11ac>
      <ApName></ApName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSMulticast></VHTMCSMulticast>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
      <Client11acOnly></Client11acOnly>
    </Dot11ac>
  </Radius11ac>
</AP>

```

```

    </Dot11ac>
  </Radio11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Radio11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A.
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: true—Enable. false—Disable.	N/A

AP/APGroup

This table contains information of AP groups.

XML structure

```
<AP>
  <APGroup>
    <Group>
      <Name></Name>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </Group>
  </APGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AP group is locked.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds Default value is 10 seconds.	N/A
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Default value is 3.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds Default value is 5 seconds.	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds Default value is 6.	N/A
StatsInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 2 to 120 Unit: seconds Default value is 50 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: - Enable - Disable Default value is disable.	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of APGroup.	N/A	String, Length: 1 to 64 characters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: - Enable - Disable	N/A

AP/APGroupMACRule

This table contains information of AP groups' rules of MAC address.

XML structure

```

<AP>
  <APGroupMACRule>
    <Rule>
      <GroupName></GroupName>
      <MacAddress></MacAddress>
    </Rule>
  </APGroupMACRule>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupMACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
MacAddress	AP MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/APGroupSerialIDRule

This table contains information of AP groups' rules of serial ID.

XML structure

```
<AP>
  <APGroupSerialIDRule>
    <Rule>
      <GroupName></GroupName>
      <SerialID></SerialID>
    </Rule>
  </APGroupSerialIDRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupSerialIDRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	N/A

AP/APGroupNameRule

This table contains information of AP groups' rules of AP name.

XML structure

```
<AP>
  <APGroupNameRule>
    <Rule>
      <GroupName></GroupName>
      <APName></APName>
    </Rule>
  </APGroupNameRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupNameRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
APName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A

AP/APGroupIPv4Rule

This table contains information of AP groups' rules of IPv4 address range.

XML structure

```
<AP>
  <APGroupIPv4Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv4Addr></IPv4Addr>
      <IPv4Wildcard></IPv4Wildcard>
    </Rule>
  </APGroupIPv4Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv4Addr	IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
IPv4Wildcard	Wildcard mask for the IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 255.255.255.0.

AP/APGroupIPv6Rule

This table contains information of AP groups' rules of IPv6 address range.

XML structure

```
<AP>
  <APGroupIPv6Rule>
    <Rule>
      <GroupName></GroupName>
```

```

    <IPv6Addr></IPv6Addr>
    <IPv6Wildcard></IPv6Wildcard>
  <Rule>
</APGroupIPv6Rule>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv6Addr	Source IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false .
IPv6Wildcard	Length of the source IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false .

AP/APGroupModel

This table contains information of AP group models.

XML structure

```

<AP>
  <APGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
    </Model>
  </APGroupModel>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupModel
Table type	Multi-instance table
Row name	Model
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

AP/APGroupRadio

This table contains information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio>
    <Radio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <ChannelAutoLock></ChannelAutoLock>
      <Distance></Distance>
```

```

    <MaxRxDuration></MaxRxDuration>
    <FragmentThreshold></FragmentThreshold>
    <LongRetryThreshold></LongRetryThreshold>
    <ProtectionThreshold></ProtectionThreshold>
    <ShortRetryThreshold></ShortRetryThreshold>
    <CfgChannel></CfgChannel>
    <CfgMaxPower></CfgMaxPower>
  </Radio>
</APGroupRadio>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M Default value is 1 when the Mode is 1、2、3、4、6. Default value is 2 when the Mode is 5. Default value is 3 when the Mode is 7.	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only	N/A
Status	Radio status	N/A	Enumeration: 0—Disable 1—Enable 2—Inherit	N/A
RateMulticast	Multicast rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps 13—auto If this column is not configured, the multicast rate will be calculated automatically. Default value: auto	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: A. 1, 2Mbps(802.11b). B. 6, 12, 24Mbps(802.11a/802.11an) C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: A. 5.5, 11Mbps(802.11b) B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an) C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateDisabled	Disabled rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: null.	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
Preamble	Preamble	N/A	Boolean: true—Short. false—Long. The column is only for 2.4GHz radio mode. Default value: short.	N/A
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms Default value: 100	N/A
PowerLock	Lock the power	N/A	Enumeration: 0—Disable 1—Enable 2—Inherit	N/A
ChannelAutoLock	Lock the channel	N/A	Boolean: - true—ChannelAutoLock. - false—ChannelAutoUnLock. The default value is true.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre). Default value: 1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxRxDuration	Max Received frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms. Default value: 2000	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. Unit: byte. Default value: 2346	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 4	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte. Default value: 2346	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 7	N/A
CfgChannel	Configured channel number	N/A	Unsigned short. The value range conforms to "AP/ChannelDB/Supported ChannelList" column. If this column is set to zero, the channel number will be calculated automatically.	N/A
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/APGroupRadio11n

This table contains 802.11n information of AP group radios.

XML structure

```

<AP>
  <APGroupRadio11n>
    <Radio11n>
      <GroupName></GroupName>

```

```

    <ModelName></ModelName>
    <RadioID></RadioID>
    <MCSMulticast></MCSMulticast>
    <MCSMandatory></MCSMandatory>
    <MCSSupported></MCSSupported>
    <Ampdu></Ampdu>
    <Amsdu></Amsdu>
    <ShortGI></ShortGI>
    <Stbc></Stbc>
    <Ldpc></Ldpc>
    <Mimo></Mimo>
    <Greenap></Greenap>
    <SmartAntenna></SmartAntenna>
    <SmartAntennaPolicy></SmartAntennaPolicy>
    <Protection></Protection>
    <Client11nOnly></Client11nOnly>
    <BandwidthAutoswitch></ BandwidthAutoswitch >
  </Radio11n>
</APGroupRadio11n>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11n
Table type	Multi-instance table
Row name	Radio11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 76.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Stbc	STBC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Mimo	MIMO.	N/A	Enumeration: 1: 1X1 2: 2X2 3: 3X3 4: 4X4	N/A
Greenap	Green ap function.	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: 1: Auto 2: High-availability 3: High-throughput	Effective only when SmartAntenna is enabled.

Column name	Column description	Column type	Data type and restrictions	Remarks
Protection	802.11n protection function.	N/A	Boolean: • true —Enable. false —Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: • true —Enable. D. false —Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: • true —Enable. • false —Disable. The column is only for 2.4GHz radio mode, and AP/APGroupRadio/Bandwidth must be 2.	N/A

AP/APGroupRadio11ac

This table contains 802.11ac information of AP group radios.

XML structure

```

<AP>
  <APGroupRadio11ac>
    <Radio11ac>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSMulticast></VHTMCSMulticast>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
      <Client11acOnly></Client11acOnly>
    </Radio11ac>
  </APGroupRadio11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11ac
Table type	Multi-instance table
Row name	Radio11ac
Restrictions	The table is only for 802.11ac radio mode.

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A.
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: true—Enable. false—Disable.	N/A

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```

<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <AChostName></AChostName>
    </Prvs>
  </APGroupPrvs>
</AP>

```

```

    <ACIPv4></ACIPv4>
    <ACIPv6></ACIPv6>
    <DnsDomain></DnsDomain>
    <DnsServerIPv4></DnsServerIPv4>
    <DnsServerIPv6></DnsServerIPv6>
  </Prvs>
</APGroupPrvs>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvs
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1, 1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

AP/Location

This table contains the informations of locations.

XML structure

```
<AP>
  <Location>
    <Location>
      <LocationName></LocationName>
    </Location>
  </Location>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Location
Table type	Multi-instance table
Row name	Location
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Location name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

AP/APAuthentication

This table contains the informations of AP authentication.

XML structure

```
<AP>
  <APAuthentication>
    <Status></Status>
    <Method></Method>
    <PermitUnauth></PermitUnauth>
    <AuthDomain></AuthDomain>
    <AcNumber></AcNumber>
```

```

    <AcIName></AcIName>
  </APAuthentication>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APAuthentication
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The status of AP authentication.	N/A	Boolean: true—Enable. false—Disable. Default value is disable.	N/A
Method	The authentication method	N/A	Enumeration: 1—MAC address. 2—Serial ID. Default value is MAC address.	N/A
PermitUnauth	Whether the un-authenticated AP is allowed to join the AC.	N/A	Boolean: true—Allowed. false—Not allowed. Default value is allowed.	N/A
AuthDomain	The ISP domain of remote AP authentication.	N/A	String, case-insensitive. Length: 1 to 24 characters.	N/A
AcINumber	The ACL number of local AP authentication.	N/A	Unsigned short. Value range: 200 to 299.	This column is unavailable when the AC uses an ACL name.
AcIName	The ACL name of local AP authentication.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is unavailable when the AC uses an ACL number. The ACL name should not be "all".

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AP

AP/APSummary

This table contains AP global statistics.

XML structure

```
<AP>
  <APSummary>
    <ManualApNum></ManualApNum>
    <RunApNum></RunApNum>
    <OfflineApNum></OfflineApNum>
    <UnhealthyApNum></UnhealthyApNum>
    <ApGroupNum></ApGroupNum>
    <LocationNum></LocationNum>
    <NorthIfOutPkt></NorthIfOutPkt>
    <NorthIfOutByte></NorthIfOutByte>
    <NorthIfInPkt></NorthIfInPkt>
    <NorthIfInByte></NorthIfInByte>
  </APSummary>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APSummary
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ManualApNum	Number of manual APs	N/A	Unsigned integer. Value range: 0 to 65535.
RunApNum	Number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.
OfflineApNum	Number of offline APs	N/A	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
UnhealthyApNum	Number of Unhealthy APs	N/A	Unsigned integer. Value range: 0 to 65535.
ApGroupNum	Number of AP groups	N/A	Unsigned integer. Value range: 0 to 65535.
LocationNum	Number of locations	N/A	Unsigned integer. Value range: 0 to 65535.
NorthIfOutPkt	Packets count of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfOutByte	Throughput statistics of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInPkt	Packets count of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInByte	Throughput statistics of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.

AP/GlobalCfg

This table contains the informations of global.

XML structure

```

<AP>
  <GlobalCfg>
    <AutoAp></AutoAp>
    <AutoPersistent></AutoPersistent>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Priority></Priority>
    <Preempt></Preempt>
    <EchoInterval></EchoInterval>
    <EchoCount></EchoCount>
    <RetransInterval></RetransInterval>
    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <TunnelEncryption></TunnelEncryption>
  </GlobalCfg>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	GlobalCfg
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoAp	Whether an AP can connect the AC without creating a manual AP.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
AutoPersistent	When an auto AP connects the AC , whether convert the AP to manual AP automatically.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AC is locked.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7. Default value is 4.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds Default value is 10 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Default value is 3.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds Default value is 5 seconds.	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds Default value is 6.	N/A
StatInterval	The interval of AP sending the statistics information to AC.	N/A	Unsigned short. Value range: 2 to 120 Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • Enable • Disable Default value is disable.	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • Enable • Disable	N/A

AP/ManualAP

This table contains information of manual AP.

XML structure

```

<AP>
  <ManualAP>
    <AP>
      <Name></Name>
      <Model></Model>

```

```

    <CfgSerialID></CfgSerialID>
    <CfgMacAddress></CfgMacAddress>
    <RadioNum></RadioNum>
    <Status></Status>
    <GroupName></GroupName>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Priority></Priority>
    <Preempt></Preempt>
    <EchoInterval></EchoInterval>
    <EchoCount></EchoCount>
    <RetransInterval></RetransInterval>
    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <LocationName></LocationName>
    <Description></Description>
    <TunnelEncryption></TunnelEncryption>
  </AP>
</ManualAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	ManualAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
Model	AP model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgSerialID	Configured AP serial ID	N/A	String, uppercase. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgMacAddress	Configured AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
RadioNum	Number of the radio	N/A	Unsigned short. Value range: 1 to 4.	N/A
Status	AP associated status	N/A	Enumeration: 1—Online 2—Offline 3—Image downloading	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: true—Support. false—Not support.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7. Default value is 4.	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds Default value is 10 seconds.	N/A
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds Default value is 5 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds Default value is 6.	N/A
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 2 to 120 Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: - Enable - Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of AP.	N/A	String, Length: 1 to 64 cahacters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: - Enable - Disable	N/A

AP/APRunningCfg

This table contains information of AP running configurations.

XML structure

```

<AP>
  <APRunningCfg>
    <AP>
      <Name></Name>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>

```

```

    <RetransInterval></RetransInterval>
    <RetransCount></RetransCount>
    <StatisInterval></StatisInterval>
    <FirmwareUpgrade></FirmwareUpgrade>
    <BackupACIPv4></BackupACIPv4>
    <BackupACIPv6></BackupACIPv6>
    <LocationName></LocationName>
    <Description></Description>
    <TunnelEncryption></TunnelEncryption>
  </AP>
</APRunningCfg>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APRunningCfg
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RegionCode	Region code of AP.	N/A	Unsigned short.	Conform to ISO 3166 standart.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: true—Support. false—Not support.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7. Default value is 4	N/A
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds	N/A
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds	N/A
StatsInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 2 to 120 Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: • Enable • Disable	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of AP.	N/A	String, Length: 1 to 64 characters.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: • Enable • Disable	N/A

AP/RunAP

This table contains the information of the running AP.

XML structure

```
<AP>
  <RunAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <SerialID></SerialID>
      <Type></Type>
      <MacAddress></MacAddress>
      <RadioNum></RadioNum>
      <Status></Status>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <GroupName></GroupName>
      <OnlineTime></OnlineTime>
      <HWVer><HWVer>
      <SWVer><SWVer>
      <BWVer><BWVer>
      <TransCtrlPkt></TransCtrlPkt>
      <RecvCtrlPkt></RecvCtrlPkt>
      <TransDataPkt></TransDataPkt>
      <RecvDataPkt></RecvDataPkt>
      <EchoReqCnt></EchoReqCnt>
      <EchoRespLossCnt></EchoRespLossCnt>
      <DiscoveryType></DiscoveryType>
      <ConfigFailCnt></ConfigFailCnt>
      <LastFailReason></LastFailReason>
      <LastRebootReason></LastRebootReason>
      <TunnelDownReason></TunnelDownReason>
      <ConnectionType></ConnectionType>
      <PeerACIPv4Address><PeerACIPv4Address>
      <PeerACIPv6Address><PeerACIPv6Address>
      <LocationName></LocationName>
      <AuthenticatedFlag></AuthenticatedFlag>
    </AP>
  </RunAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RunAP
Table type	Multi-instance table

Item	Description
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
Model	AP model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SerialID	AP serial ID	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
Type	AP type	N/A	Enumeration: 1—auto 2—manual	N/A
MacAddress	AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
RadioNum	Number of the radio	N/A	Unsigned short. Value range: 1 to 4.	N/A
Status	AP associated status	N/A	Enumeration: 1—Online 3—Image downloading	N/A
Ipv4Address	AP IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
Ipv6Address	AP IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
PortNumber	AP port number	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
OnlineTime	The time since the AP online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HWVer	The version of AP hardware.	N/A	Enumeration: 1—Ver.A 2—Ver.B 3—Ver.C 4—Ver.D 5—Ver.E	N/A
SWVer	The version of AP software.	N/A	String. Length: 1 to 31 characters.	N/A
BWVer	The version of AP bootrom.	N/A	String. Length: 1 to 31 characters.	N/A
TransCtrlPkt	Count of transmitted control packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RecvCtrlPkt	Count of received control packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
TransDataPkt	Count of transmitted data packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RecvDataPkt	Count of received data packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EchoReqCnt	Count of echo request packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
EchoRespLossCnt	Count of lost echo response packets.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DiscoveryType	By which type the AP find the AC.	N/A	Enumeration: 1—Unknown 2—Static Configuration 3—DHCP 4—DNS	N/A
ConfigFailCnt	Count of failed configuration	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LastFailReason	The cause of synchronizing configurations to the AP failed in last time.	N/A	String. Length: 1 to 31 characters.	N/A
LastRebootReason	The cause of the AP rebooting in last time.	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDown Reason	The cause of the tunnel down in last time.	N/A	String. Length: 1 to 31 characters.	N/A
ConnectionType	The connection type of tunnel.	N/A	Enumeration: 1—Active 2—Standby	N/A
PeerACIPv4 Address	The IPv4 address of peer AC that AP is connecting to.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
PeerACIPv6 Address	The IPv6 address of peer AC that AP is connecting to.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
AuthenticatedFlag	Whether the auto-ap is authenticated.	N/A	Boolean: - Enable - Disable	When AP type is manual AP, this column is invalid.

AP/APHistory

This table contains the information of the AP history.

XML structure

```

<AP>
  <APHistory>
    <AP>
      <Name></Name>
      <LatestIPV4Address></LatestIPV4Address>
      <LatestIPV6Address></LatestIPV6Address>
      <ConnectCnt></ConnectCnt>
    </AP>
  </APHistory>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APHistory
Table type	Multi-instance table

Item	Description
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
LatestIPv4Address	The latest IPv4 address that AP used.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AP uses an IPv6 address.
LatestIPv6Address	The latest IPv6 address that AP used.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AP uses an IPv4 address.
ConnectCnt	The count that the AP connected the AC.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

AP/RadioOfManualAP

This table contains radio information of manual AP.

XML structure

```

<AP>
  <RadioOfManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11AC></SupportDot11AC>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
    
```

```

    <Preamble></Preamble>
    <BeaconInterval></BeaconInterval>
    <PowerLock></PowerLock>
    <ChannelAutoLock></ChannelAutoLock>
    <Distance></Distance>
    <MaxRxDuration></MaxRxDuration>
    <FragmentThreshold></FragmentThreshold>
    <LongRetryThreshold></LongRetryThreshold>
    <ProtectionThreshold></ProtectionThreshold>
    <ShortRetryThreshold></ShortRetryThreshold>
    <CfgChannel></CfgChannel>
    <CfgMaxPower></CfgMaxPower>
  </Radio>
</RadioOfManualAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioOfManualAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only	N/A
Status	Radio status	N/A	Enumeration: 0—Disable 1—Enable 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto If this column is not configured, the multicast rate will be calculated automatically.	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateMandatory	Mandatory rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
Preamble	Preamble	N/A	Boolean: • true—Short. • false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power	N/A	Enumeration: • 0—Disable • 1—Enable • 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChanneAutoLock	Lock the channel	N/A	Boolean: • true—ChanneAutoLock. • false—ChanneAutoUnLock. The default value is true.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Reveived frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number	N/A	Unsigned short. The value range conforms to "AP/ChannelDB/Supported ChannelList" column. If this column is set to zero, the channel number will be calculated automatically.	N/A
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/RadioRunningCfg

This table contains radio information of radio running configurations.

XML structure

```
<AP>
  <RadioRunningCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11AC></SupportDot11AC>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <ChannelAutoLock></ChannelAutoLock>
      <Distance></Distance>
      <MaxRxDuration></MaxRxDuration>
      <FragmentThreshold></FragmentThreshold>
      <LongRetryThreshold></LongRetryThreshold>
      <ProtectionThreshold></ProtectionThreshold>
      <ShortRetryThreshold></ShortRetryThreshold>
      <CfgChannel></CfgChannel>
      <CfgMaxPower></CfgMaxPower>
    </Radio>
  </RadioRunningCfg>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioRunningCfg

Item	Description
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth	N/A	Enumeration: • 1—20M • 2—40M • 3—80M • 4—160M • 5—80M + 80M • 17—5M • 18—10M	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: • 1—Support both 5GHz and 2.4GHz • 2—Support 5GHz only • 3—Support 2.4GHz only	N/A
Status	Radio status	N/A	Enumeration: • Disable • Enable	N/A
RateMulticast	Multicast rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps • 13—auto	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateSupported	Supported rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.
RateDisabled	Disabled rate	N/A	Enumeration: • 1—1Mbps • 2—2Mbps • 3—5.5Mbps • 4—6Mbps • 5—9Mbps • 6—11Mbps • 7—12Mbps • 8—18Mbps • 9—24Mbps • 10—36Mbps • 11—48Mbps • 12—54Mbps	The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma Example: 1, 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preamble	Preamble	N/A	Boolean: true—Short. false—Long. The column is only for 2.4GHz radio mode.	N/A
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms	N/A
PowerLock	Lock the power	N/A	Enumeration: - Disable - Enable	N/A
ChannelAutoLock	Lock the channel	N/A	Boolean: - true—ChannelAutoLock. - false—ChannelAutoUnLock. The default value is true.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	N/A
MaxRxDuration	Max Received frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms(millisecond).	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgChannel	Configured channel number	N/A	Unsigned short. The value range conforms to "AP/ChannelDB/Supported ChannelList" column. If this column is set to zero, the channel number will be calculated automatically.	N/A
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/Radio11n

This table contains radio 802.11n information.

XML structure

```

<AP>
  <Radio11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <Mimo></Mimo>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Protection></Protection>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></ BandwidthAutoswitch >
    </Dot11n>
  </Radio11n>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Radio11n
Table type	Multi-instance table
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: true—Enable. false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Stbc	STBC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Mimo	MIMO.	N/A	Enumeration: 1: 1X1 2: 2X2 3: 3X3 4: 4X4	N/A
Greenap	Green ap function.	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: 1: Auto 2: High-availability 3: High-throughput	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: true—Enable. false—Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: true—Enable. false—Disable. The column is only for 2.4GHz radio mode, and AP/RadiusManualAP/Bandwidth must be 2..	N/A

AP/Radius11ac

This table contains radio 802.11ac information.

XML structure

```

<AP>
  <Radius11ac>
    <Dot11ac>

```



```

    <ApName></ApName>
    <RadioID></RadioID>
    <VHTNSSMulticast></VHTNSSMulticast>
    <VHTMCSMulticast></VHTMCSMulticast>
    <VHTNSSMandatory></VHTNSSMandatory>
    <VHTNSSSupported></VHTNSSSupported>
    <Client11acOnly></Client11acOnly>
  </Dot11ac>
</Radio11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Radio11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A.
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.

Column name	Column description	Column type	Data type and restrictions	Remarks
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: true—Enable. false—Disable.	N/A

AP/RadioRunningCfg11n

This table contains radio 802.11n information of radio running configurations.

XML structure

```

<AP>
  <RadioRunningCfg11n>
    <Dot11n>
      <ApName></ApName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <Mimo></Mimo>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Protection></Protection>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></BandwidthAutoswitch >
    </Dot11n>
  </RadioRunningCfg11n>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioRunningCfg11n
Table type	Multi-instance table

Item	Description
Row name	Dot11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Stbc	STBC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: true—Enable. false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mimo	MIMO.	N/A	Enumeration: 1: 1X1 2: 2X2 3: 3X3 4: 4X4	N/A
Greenap	Green ap function.	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: 1: Auto 2: High-availability 3: High-throughput	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: true—Enable. false—Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: true—Enable. false—Disable. The column is only for 2.4GHz radio mode, and AP/ RadioRunningCfg/ Bandwidth must be 2..	N/A

AP/RadioRunningCfg11ac

This table contains radio 802.11ac information of radio running configurations.

XML structure

```

<AP>
  <RadioRunningCfg11ac>
    <Dot11ac>
      <ApName></ApName>
      <RadioID></RadioID>
      <VHTNSSMulticast></VHTNSSMulticast>
      <VHTMCSMulticast></VHTMCSMulticast>
      <VHTNSSMandatory></VHTNSSMandatory>
      <VHTNSSSupported></VHTNSSSupported>
      <Client11acOnly></Client11acOnly>

```

```

    </Dot11ac>
  </RadioRunningCfg11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioRunningCfg11ac
Table type	Multi-instance table
Row name	Dot11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255.	N/A.
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: true—Enable. false—Disable.	N/A

AP/RadioOfRunAP

This table contains radio information of running AP.

XML structure

```
<AP>
  <RadioOfRunAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <Bandwidth></Bandwidth>
      <Status></Status>
      <Channel></Channel>
      <SecondaryOffset></SecondaryOffset>
      <MaxPower></MaxPower>
      <BasicBSSID></BasicBSSID>
      <TxPower ></TxPower >
    </Radio>
  </RadioOfRunAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	RadioOfRunAP
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A
Status	Radio status	N/A	Enumeration: - enable - disable	N/A
Channel	Channel number	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type and region code.	N/A
SecondaryOffsetSet	Secondary channel offset	N/A	Enumeration: 0: None 1: Above 2: Below	N/A
MaxPower	Maximum power	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type, channel number and region code. Unit: dBm	N/A
BasicBSSID	BasicBSSID	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TxPower	TxPower	N/A	Unsigned short.	N/A

AP/PrvsOfManualAP

This table contains provision information of manual AP.

XML structure

```
<AP>
  <PrvsOfManualAP>
    <Prvs>
      <ApName></ApName>
      <AChostName></AChostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
      <GatewayIPv4></GatewayIPv4>
      <GatewayIPv6></GatewayIPv6>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Dot1xSupplAnonyIdent></Dot1xSupplAnonyIdent>
      <Dot1xSupplEapMethod></Dot1xSupplEapMethod>
      <Dot1xSupplEnable></Dot1xSupplEnable>
      <Dot1xSupplPasswdCiper></Dot1xSupplPasswdCiper>
      <Dot1xSupplPasswdSimple></Dot1xSupplPasswdSimple>
      <Dot1xSupplUsername></Dot1xSupplUsername>
    </Prvs>
  </PrvsOfManualAP>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAP
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1, 1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
GatewayIPv4	Specify a gateway by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
GatewayIPv6	Specify a gateway by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
IPv4Address	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Address	Specify an IPv6 address that the AP uses to establish a CAPWAP tunnel.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Dot1xSupplAnonyIdent	Specify an anonymous identifier for the supplicant.	N/A	String. Length: 1 to 253 characters.	N/A
Dot1xSupplEapMethod	Specify an EAP authentication method.	N/A	Enumeration: 1—md5 2—peap-gtc 3—peap-mschapv2 4—ttls-gtc 5—ttls-mschapv2	N/A
Dot1xSupplEnable	Enable the 802.1X supplicant feature.	N/A	Boolean: true—Enable. false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Dot1xSuppl PasswdCipher	Specify a ciphertext password for the 802.1X supplicant.	N/A	String. Length: 1 to 201 characters.	N/A
Dot1xSuppl PasswdSimple	Specify a plaintext password for the 802.1X supplicant.	N/A	String. Length: 1 to 127 characters.	N/A
Dot1xSuppl Username	Specify a username for the 802.1X supplicant.	N/A	String. Length: 1 to 253 characters.	N/A

AP/APDB

This table contains AP model information.

XML structure

```

<AP>
  <APDB>
    <Model>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
      <DefaultRegionCode></DefaultRegionCode>
    </Model>
  </APDB>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APDB
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioNum	Radio's number of AP model	N/A	Unsigned short. Value range: 1 to 4.	N/A
DefaultRegionCode	Default region code of AP model.	N/A	Unsigned short.	Conform to ISO 3166 standard.

AP/APDBVersion

This table contains apdb version of AP model.

XML structure

```

<AP>
  <APDBVersion>
    <Model>
      <ModelName></ModelName>
      <HardwareVersion></HardwareVersion>
      <SoftwareVersion></SoftwareVersion>
    </Model>
  </APDBVersion>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APDBVersion
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, uppercase. Length: 1 to 63 characters.	Refer to APDB/ModelName
HardwareVersion	The version of Hardware.	Index	Enumeration: 1—Ver.A 2—Ver.B 3—Ver.C 4—Ver.D 5—Ver.E	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SoftwareVersion	The version of Software.	N/A	String Length:1 to 31.	N/A

AP/RadioDB

This table contains radio information of AP model.

XML structure

```

<AP>
  <RadioDB>
    <Radio>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <DefaultRadioMode></DefaultRadioMode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11AC></SupportDot11AC>
      <Spectrum></Spectrum>
      <DefaultAntennaType></DefaultAntennaType>
      <Aifsn></Aifsn>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <TxOpLimit></TxOpLimit>
      <SupportBandwidth></SupportBandwidth>
      <SupportMCS></SupportMCS>
      <SupportVHTMCS></SupportVHTMCS>
      <ShortGI20M></ShortGI20M>
      <ShortGI40M></ShortGI40M>
      <ShortGI80M></ShortGI80M>
      <ShortGI160M></ShortGI160M>
      <SUBeamformer></SUBeamformer>
      <MUBeamformer></MUBeamformer>
      <Ldpc></Ldpc>
      <TxStbc></TxStbc>
      <RxStbc></RxStbc>
      <VHTLdpc></VHTLdpc>
      <VHTTxStbc></VHTTxStbc>
      <VHTRxStbc></VHTRxStbc>
    </Radio>
  </RadioDB>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioDB
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, uppercase. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
DefaultRadioMode	Default radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only	N/A
DefaultAntennaType	Default antenna type of radio.	N/A	String, case-insensitive. Length: 1 to 80 characters.	N/A
Aifsn	Arbitration Inter Frame Spacing Number	N/A	Unsigned integer. Value range is 1 to 15, and is restricted by chipset.	N/A
Ecwmin	Exponent form of CWmin	N/A	Unsigned integer. Value range is 0 to 10, and is restricted by chipset.	N/A
Ecwmax	Exponent form of CWmax	N/A	Unsigned integer. Value range is 1 to 10, and is restricted by chipset.	N/A
TxOpLimit	Transmission opportunity limit	N/A	Unsigned integer. Value range is 0 to 32767 and is restricted by chipset. Unit is millisecond.	N/A
SupportBandwidth	Supported channel bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A
SupportMCS	Supported MCS	N/A	Unsigned short. Value range: 0 to 76.	N/A
SupportVHTMCS	Supported VHT-MCS	N/A	Unsigned short. Value range: 1 to 8.	N/A
ShortGI20M	Supported short GI for 20MHz	N/A	Boolean: true—Support. false—Not support.	N/A
ShortGI40M	Supported short GI for 40MHz	N/A	Boolean: true—Support. false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ShortGI80M	Supported short GI for 80MHz	N/A	Boolean: true—Support. false—Not support.	N/A
ShortGI160M	Supported short GI for 160MHz	N/A	Boolean: true—Support. false—Not support.	N/A
SUBeamformer	Supported SU-Beamformer	N/A	Boolean: true—Support. false—Not support.	N/A
MUBeamformer	Supported MU-Beamformer	N/A	Boolean: true—Support. false—Not support.	N/A
Ldpc	Supported Idpc	N/A	Boolean: true—Support. false—Not support.	N/A
TxStbc	Supported TxStbc	N/A	Boolean: true—Support. false—Not support.	N/A
RxStbc	Supported RxStbc	N/A	Boolean: true—Support. false—Not support.	N/A
VHTLdpc	Supported VHT Idpc	N/A	Boolean: true—Support. false—Not support.	N/A
VHTTxStbc	Supported VHT TxStbc	N/A	Boolean: true—Support. false—Not support.	N/A
VHTRxStbc	Supported VHT RxStbc	N/A	Boolean: true—Support. false—Not support.	N/A

AP/RegionDB

This table contains valid region list of AP models.

XML structure

```

<AP>
  <RegionDB>
    <Region>
      <ModelName></ModelName>
      <RegionCode></RegionCode>
      <SupportedRadioList></SupportedRadioList>
    </Region>
  </RegionDB>
</AP>

```

```

    </RegionDB>
  </AP>

```

Table description

Item	Description
Feature name	AP
Table name	RegionDB
Table type	Multi-instance table
Row name	Region
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RegionCode	Region code of AP.	Index	Unsigned short.	Conform to ISO 3166 standard.
SupportedRadioList	Supported radio list of current region.	N/A	Number string. It is a comma-separated list of supported radio IDs. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2

AP/AntennaDB

This table contains valid antenna types of AP models.

XML structure

```

<AP>
  <AntennaDB>
    <Antenna>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <AntennaType></AntennaType>
    </Antenna>
  </AntennaDB>
</AP>

```


Table description

Item	Description
Feature name	AP
Table name	AntennaDB
Table type	Multi-instance table
Row name	Antenna
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
AntennaType	Antenna type of radio.	Index	String, case-insensitive. Length: 1 to 80 characters.	N/A

AP/ChannelTypeMap

This table contains channel type of radios.

XML structure

```
<AP>
  <ChannelTypeMap>
    <ChannelMap>
      <RadioMode></RadioMode>
      <Bandwidth></Bandwidth>
      <Channel></Channel>
      <ChannelType></ChannelType>
    </ChannelMap>
  </ChannelTypeMap>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	ChannelTypeMap
Table type	Multi-instance table

Item	Description
Row name	ChannelMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioMode	Radio mode	Index	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
Bandwidth	Radio bandwidth	Index	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A
Channel	Legal channel number.	Index	Unsigned short.	Conform to IEEE 802.11 protocol , ISO 3166 standart and the related national and regional laws and regulations.

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	N/A	Enumeration: 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11a(36 to 64) 6—802.11a(100 to 144) 7—802.11a(149 to 165) 8—802.11n(5GHz) (36 to 64) in 20M mode 9—802.11n(5GHz) (100 to 144) in 20M mode 10—802.11n(5GHz) (149 to 165) in 20M mode 11—802.11n(5GHz) (36 to 64) in 40M mode 12—802.11n(5GHz) (100 to 144) in 40M mode 13—802.11n(5GHz) (149 to 165) in 40M mode 14—802.11ac (36 to 64) in 20M mode 15—802.11ac (100 to 144) in 20M mode 16—802.11ac (149 to 165) in 20M mode 17—802.11ac (36 to 64) in 40M mode 18—802.11ac (100 to 144) in 40M mode 19—802.11ac (149 to 165) in 40M mode 20—802.11ac (36 to 64) in 80M mode 21—802.11ac (100 to 144) in 80M mode 22—802.11ac (149 to 165) in 80M mode	N/A

AP/PowerIndex

This table contains valid power index of AP models.

XML structure

```
<AP>
  <PowerIndex>
    <Index>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <RadioMode></RadioMode>
      <AntennaType></AntennaType>
      <RegionCode></RegionCode>
      <ChannelType></ChannelType>
      <PowerIndex></PowerIndex>
      <PowerSubIndex></PowerSubIndex>
    </Index>
  </PowerIndex>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	PowerIndex
Table type	Multi-instance table
Row name	Index
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
RadioMode	Radio mode	Index	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A
AntennaType	Antenna type of radio.	Index	String, case-insensitive. Length: 1 to 80 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionCode	Region code of AP.	Index	Unsigned short.	Refer to AP/RegionDB/RegionCode.
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11a(36 to 64) 6—802.11a(100 to 144) 7—802.11a(149 to 165) 8—802.11n(5GHz) (36 to 64) in 20M mode 9—802.11n(5GHz) (100 to 144) in 20M mode 10—802.11n(5GHz) (149 to 165) in 20M mode 11—802.11n(5GHz) (36 to 64) in 40M mode 12—802.11n(5GHz) (100 to 144) in 40M mode 13—802.11n(5GHz) (149 to 165) in 40M mode 14—802.11ac (36 to 64) in 20M mode 15—802.11ac (100 to 144) in 20M mode 16—802.11ac (149 to 165) in 20M mode 17—802.11ac (36 to 64) in 40M mode 18—802.11ac (100 to 144) in 40M mode 19—802.11ac (149 to 165) in 40M mode 20—802.11ac (36 to 64) in 80M mode 21—802.11ac (100 to 144) in 80M mode 22—802.11ac (149 to 165) in 80M mode	Refer to AP/ChannelTypeMap/ChannelType.
PowerIndex	The index value of power table	N/A	Enumeration: 1—System script 2—Userscript	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerSubIndex	The sub-index value of power table	N/A	Unsigned short.	N/A

AP/ChannelDB

This table contains valid channel list of AP models.

XML structure

```

<AP>
  <ChannelDB>
    <Channel>
      <PowerIndex></PowerIndex>
      <ChannelType></ChannelType>
      <PowerSubIndex></PowerSubIndex>
      <SupportedChannelList></SupportedChannelList>
    </Channel>
  </ChannelDB>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	ChannelDB
Table type	Multi-instance table
Row name	Channel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	The index value of power table	Index	Enumeration: 1—System script 2—Userscript	Refer to AP/PowerIndex/PowerIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11a(36 to 64) 6—802.11a(100 to 144) 7—802.11a(149 to 165) 8—802.11n(5GHz) (36 to 64) in 20M mode 9—802.11n(5GHz) (100 to 144) in 20M mode 10—802.11n(5GHz) (149 to 165) in 20M mode 11—802.11n(5GHz) (36 to 64) in 40M mode 12—802.11n(5GHz) (100 to 144) in 40M mode 13—802.11n(5GHz) (149 to 165) in 40M mode 14—802.11ac (36 to 64) in 20M mode 15—802.11ac (100 to 144) in 20M mode 16—802.11ac (149 to 165) in 20M mode 17—802.11ac (36 to 64) in 40M mode 18—802.11ac (100 to 144) in 40M mode 19—802.11ac (149 to 165) in 40M mode 20—802.11ac (36 to 64) in 80M mode 21—802.11ac (100 to 144) in 80M mode 22—802.11ac (149 to 165) in 80M mode	Refer to AP/ChannelTypeMap/ChannelType.
PowerSubIndex	The sub-index value of power table	Index	Unsigned short.	Refer to AP/PowerIndex/PowerSubIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportedChannelList	Supported channel list of current model.	N/A	Number string. It is a comma-separated list of supported channels. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2,3

AP/PowerDB

This table contains valid power values of AP models.

XML structure

```

<AP>
  <PowerDB>
    <Power>
      <PowerIndex></PowerIndex>
      <ChannelType></ChannelType>
      <PowerSubIndex></PowerSubIndex>
      <Channel></Channel>
      <ValidMaxPower></ValidMaxPower>
    </Power>
  </PowerDB>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PowerDB
Table type	Multi-instance table
Row name	Power
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	The index value of power table	Index	Enumeration: 1—System script 2—User script	Refer to AP/PowerIndex/PowerIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11a(36 to 64) 6—802.11a(100 to 144) 7—802.11a(149 to 165) 8—802.11n(5GHz) (36 to 64) in 20M mode 9—802.11n(5GHz) (100 to 144) in 20M mode 10—802.11n(5GHz) (149 to 165) in 20M mode 11—802.11n(5GHz) (36 to 64) in 40M mode 12—802.11n(5GHz) (100 to 144) in 40M mode 13—802.11n(5GHz) (149 to 165) in 40M mode 14—802.11ac (36 to 64) in 20M mode 15—802.11ac (100 to 144) in 20M mode 16—802.11ac (149 to 165) in 20M mode 17—802.11ac (36 to 64) in 40M mode 18—802.11ac (100 to 144) in 40M mode 19—802.11ac (149 to 165) in 40M mode 20—802.11ac (36 to 64) in 80M mode 21—802.11ac (100 to 144) in 80M mode 22—802.11ac (149 to 165) in 80M mode	Refer to AP/ChannelTypeMap/ChannelType.
PowerSubIndex	The sub-index value of power table	Index	Enumeration: 1—System script 2—User script	Refer to AP/PowerIndex/PowerSubIndex
Channel	Legal channel number.	Index	Unsigned short.	Refer to AP/ChannelDB/SupportedChannelList.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidMaxPower	Legal maximum power. The upper limit of configurable maximum power.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type, channel number and region code.	Conform to IEEE 802.11 protocol , ISO 3166 standard and the related national and regional laws and regulations.

AP/ChannelReport

This table contains the fields which carry the channel reports of the Ap.

XML structure

```

<AP>
  <ChannelReport>
    <Channel>
      <ApName></ApName>
      <RadioID></RadioID>
      <Channel></Channel>
      <NeighborCount></NeighborCount>
      <Load></Load>
      <Utilization></Utilization>
      <Interference></Interference>
      <PacketErr></PacketErr>
      <Retry></Retry>
      <RadarStatus><RadarStatus>
    </Channel>
  </ChannelReport>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	ChannelReport
Table type	Multi-instance table
Row name	Channel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Channel	Legal channel number.	Index	Unsigned short.	Refer to AP/ChannelDB/SupportedChannelList.
NeighborCount	Neighbour number of the legal channels.	N/A	Unsigned integer.	N/A
Load	Percentage of the time for transmitting all packets on the channel to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Utilization	Percentage of the time for transmitting packets of the BSS to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Interference	Percentage of the time for transmitting packets of other BSSs to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErr	Packet error rate of the legal channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
Retry	Retransmission rate of the legal channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
RadarStatus	Radar detection status at the legal channel.	N/A	Boolean: true—Radar is detected. false—Radar is not detected.	N/A

AP/NeighborAPReport

This table contains the fields which carry the information of the Ap's current neighbors.

XML structure

```
<AP>
  <NeighborAPReport>
    <Neighbor>
      <ApName></ApName>
      <RadioID></RadioID>
      <MacAddress></MacAddress>
      <Channel></Channel>
      <Interference></Interference>
      <SignalStrength></SignalStrength>
      <NeighborType></NeighborType>
    </Neighbor>
  </NeighborAPReport>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	NeighborAPReport
Table type	Multi-instance table
Row name	Neighbor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	If the neighbor is unmanaged AP, this column is MAC address; or if the neighbor is managed AP, it is basic BSSID. Example: 00-0c-af-e3-5d-c0.
Channel	Channel number where the neighbor is discovered.	N/A	Unsigned short. The value range is related to AP model, radio mode, antenna type and country code.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interference	Percentage of the time for transmitting packets of the neighbor to the total time for scanning the channel.	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
SignalStrength	Strength of signal received.	N/A	Unsigned integer. Unit: dBm.	An indication of the total channel power (signal, noise, and interference) of a received frame measured on the channel and at the antenna connector used to receive the frame.
NeighborType	Management status of the neighbor.	N/A	Boolean: - true—Managed neighbor. - false—UnManaged neighbor.	N/A

AP/EdcaRadio

This table contains radio EDCA information.

XML structure

```

<AP>
  <EdcaRadio>
    <EdcaPara>
      <ApName></ApName>
      <RadioID></RadioID>
      <AccessCategory></AccessCategory>
      <Noack></Noack>
      <CfgAifsn></CfgAifsn>
      <CfgEcwmin></CfgEcwmin>
      <CfgEcwmax></CfgEcwmax>
      <CfgTxOpLimit></CfgTxOpLimit>
    </EdcaPara>
  </EdcaRadio>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	EdcaRadio
Table type	Multi-instance table
Row name	EdcaPara
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length:1to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadiolD	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A
AccessCategory	A label for the common set of enhanced distributed channel access parameters that are used by a WMM STA to contend for the channel in order to transmit MSDUs with certain priorities..	Index	Enumeration: 0—BK. 1—BE. 2—VI. 3—VO.	N/A
Noack	Whether acknowledgement is required.	N/A	Boolean: - true—Not required. - false—Required. The default value is false.	N/A
CfgAifsn	Arbitration Inter Frame Spacing Number.	N/A	The value range conforms to “AP/RadiolDB/Aifsn” column.	N/A
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to “AP/RadiolDB/Ecwmin” column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to “AP/RadiolDB/Ecwmax” column.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgTxOpLimit	Transmission opportunity limit.	N/A	The value range conforms to "AP/RadioIDB/TxOpLimit" column.	N/A

AP/RadioWmm

This table contains radio WMM information.

XML structure

```

<AP>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioID></RadioID>
      <Status></Status>
    </Wmm>
  </RadioWmm>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
RadioID	Radio identifier.	Index	Unsigned char. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WMM status of radio.	N/A	Boolean: - true—Enable. - false—Disable. The default value is true.	N/A

AP/APGroup

This table contains information of AP groups.

XML structure

```

<AP>
  <APGroup>
    <Group>
      <Name></Name>
      <RuleNum></RuleNum>
      <ModelNum></ModelNum>
      <APNum></APNum>
      <RegionCode></RegionCode>
      <RegionLock></RegionLock>
      <Priority></Priority>
      <Preempt></Preempt>
      <EchoInterval></EchoInterval>
      <EchoCount></EchoCount>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <StatisInterval></StatisInterval>
      <FirmwareUpgrade></FirmwareUpgrade>
      <BackupACIPv4></BackupACIPv4>
      <BackupACIPv6></BackupACIPv6>
      <LocationName></LocationName>
      <Description></Description>
      <TunnelEncryption></TunnelEncryption>
    </Group>
  </APGroup>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroup
Table type	Multi-instance table
Row name	Group

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RuleNum	Number of rules in the AP group	N/A	Unsigned short. Value range: 0 to 5.	N/A
ModelNum	Number of models in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
APNum	Number of APs in the AP group	N/A	Unsigned short. Value range: 0 to 65535.	N/A
RegionCode	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standard.
RegionLock	Whether the region code of the AP group is locked.	N/A	Boolean: true—Support. false—Not support. Default value is false.	N/A
Priority	AP connection priority	N/A	Unsigned short. Value range: 0 to 7.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: - true: Switch - false: Not switch Default value is false.	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 5 to 80. Unit: seconds Default value is 10 seconds.	N/A
EchoCount	The allowed maximum number of echo messages which are not received. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Default value is 3.	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 1 to 30. Unit: seconds Default value is 5 seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RetransCount	The allowed maximum number of retransmission attempts. If the count is reached, the tunnel will be down.	N/A	Unsigned short. Value range: 1 to 20. Unit: seconds Default value is 6.	N/A
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 1 to 600 Unit: seconds Default value is 50 seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: - Enable - Disable Default value is disable.	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
BackupACIPv6	The IPv6 backup AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
LocationName	Which location the AP group belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A
Description	The description of APGroup.	N/A	String, Length: 1 to 64 cahacters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: - Enable - Disable	N/A

AP/APGroupMACRule

This table contains information of AP groups' rules of MAC address.

XML structure

```

<AP>
  <APGroupMACRule>
    <Rule>
      <GroupName></GroupName>
      <MacAddress></MacAddress>
    </Rule>
  </APGroupMACRule>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupMACRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
MacAddress	AP MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

AP/APGroupSerialIDRule

This table contains information of AP groups' rules of serial ID.

XML structure

```
<AP>
  <APGroupSerialIDRule>
    <Rule>
      <GroupName></GroupName>
      <SerialID></SerialID>
    </Rule>
  </APGroupSerialIDRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupSerialIDRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
SerialID	AP serial ID	Index	String, uppercase. Length: 1 to 127 characters.	N/A

AP/APGroupNameRule

This table contains information of AP groups' rules of AP name.

XML structure

```
<AP>
  <APGroupNameRule>
    <Rule>
      <GroupName></GroupName>
      <APName></APName>
    </Rule>
  </APGroupNameRule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupNameRule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
APName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A

AP/APGroupIPv4Rule

This table contains information of AP groups' rules of IPv4 address range.

XML structure

```
<AP>
  <APGroupIPv4Rule>
    <Rule>
      <GroupName></GroupName>
      <IPv4Addr></IPv4Addr>
      <IPv4Wildcard></IPv4Wildcard>
    </Rule>
  </APGroupIPv4Rule>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv4Addr	IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
IPv4Wildcard	Wildcard mask for the IPv4 address of AP.	Index	String, dotted decimal notation.	Example: 255.255.255.0.

AP/APGroupIPv6Rule

This table contains information of AP groups' rules of IPv6 address range.

XML structure

```
<AP>
  <APGroupIPv6Rule>
```

```

    <Rule>
      <GroupName></GroupName>
      <IPv6Addr></IPv6Addr>
      <IPv6Wildcard></IPv6Wildcard>
    </Rule>
  </APGroupIPv6Rule>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
IPv6Addr	Source IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false .
IPv6Wildcard	Length of the source IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false .

AP/APGroupModel

This table contains information of AP group models.

XML structure

```

<AP>
  <APGroupModel>
    <Model>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
    </Model>
  </APGroupModel>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupModel
Table type	Multi-instance table
Row name	Model
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioNum	Number of the radio	N/A	Unsigned short. Value range: 1 to 4.	N/A

AP/APGroupRadio

This table contains information of AP group radios.

XML structure

```
<AP>
  <APGroupRadio>
    <Radio>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></ SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11AC></SupportDot11AC>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
```

```

    <RateSupported></RateSupported>
    <RateDisabled></RateDisabled>
    <Preamble></Preamble>
    <BeaconInterval></BeaconInterval>
    <PowerLock></PowerLock>
    <ChannelAutoLock></ChannelAutoLock>
    <Distance></Distance>
    <MaxRxDuration></MaxRxDuration>
    <FragmentThreshold></FragmentThreshold>
    <LongRetryThreshold></LongRetryThreshold>
    <ProtectionThreshold></ProtectionThreshold>
    <ShortRetryThreshold></ShortRetryThreshold>
    <CfgChannel></CfgChannel>
    <CfgMaxPower></CfgMaxPower>
  </Radio>
</APGroupRadio>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
Mode	Radio mode	N/A	Enumeration: 1—802.11b 2—802.11a 3—802.11g 4—802.11n(2.4GHz) 5—802.11n(5GHz) 6—802.11ac(2.4GHz) 7—802.11ac(5GHz)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDot11B	Whether a radio supports 802.11b radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: true—Support. false—Not support.	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M	N/A
Spectrum	Supported radio spectrum	N/A	Enumeration: 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only	N/A
Status	Radio status	N/A	Enumeration: 0—Disable 1—Enable 2—Inherit	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps 13—auto The value range conforms to “AP/RadioOfManualAP/Cfg RateMandatory” column. If this column is not configured, the multicast rate will be calculated automatically. Default value: auto	N/A
RateMandatory	Mandatory rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: A. 1, 2Mbps(802.11b). B. 6, 12, 24Mbps(802.11a/802.11an) C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)	The value can have multi-selections.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateSupported	Supported rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: A. 5.5, 11Mbps(802.11b) B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an) C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)	The value can have multi-selections, exclude the one which multicast rate uses.
RateDisabled	Disabled rate	N/A	Enumeration: 1—1Mbps 2—2Mbps 3—5.5Mbps 4—6Mbps 5—9Mbps 6—11Mbps 7—12Mbps 8—18Mbps 9—24Mbps 10—36Mbps 11—48Mbps 12—54Mbps Default value: null.	The value can have multi-selections, exclude the one which multicast rate uses.
Preamble	Preamble	N/A	Boolean: true—Short. false—Long. The column is only for 2.4GHz radio mode. Default value: short.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeaconInterval	Beacon Interval time	N/A	Unsigned short. The value range is 32~8191. Unit: TU. 1TU = 1024ms Default value: 100	N/A
PowerLock	Lock the power	N/A	Boolean: true—Enable. false—Disable. Default value: disable	N/A
ChannelAutoLock	Lock the channel	N/A	Boolean: true—ChannelAutoLock. false—ChannelAutoUnLock. The default value is true.	When the value is true, the radio automatically selects an optimal channel, and then locks the channel. When the AC detects any radar signals on its channel, it immediately selects another channel (even if the channel auto lock is true) and locks the new channel.
Distance	The distance that Radio can cover	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre). Default value: 1	N/A
MaxRxDuration	Max Received frame duration time	N/A	Unsigned integer. The value range is 500~250000. Unit: ms. Default value: 2000	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. Unit: byte. Default value: 2346	N/A
LongRetryThreshold	Long retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 4	N/A
ProtectionThreshold	Protection threshold	N/A	Unsigned short. The value range is 0~2346. Unit: byte. Default value: 2346	N/A
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null. Default value: 7	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CfgChannel	Configured channel number	N/A	Unsigned short. The value range conforms to "AP/ChannelDB/Supported ChannelList" column. If this column is set to zero, the channel number will be calculated automatically.	N/A
CfgMaxPower	Configured maximum power	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A

AP/APGroupRadio11n

This table contains 802.11n information of AP group radios.

XML structure

```

<AP>
  <APGroupRadio11n>
    <Radio11n>
      <GroupName></GroupName>
      <ModelName></ModelName>
      <RadioID></RadioID>
      <MCSMulticast></MCSMulticast>
      <MCSMandatory></MCSMandatory>
      <MCSSupported></MCSSupported>
      <Ampdu></Ampdu>
      <Amsdu></Amsdu>
      <ShortGI></ShortGI>
      <Stbc></Stbc>
      <Ldpc></Ldpc>
      <Mimo></Mimo>
      <Greenap></Greenap>
      <SmartAntenna></SmartAntenna>
      <SmartAntennaPolicy></SmartAntennaPolicy>
      <Protection></Protection>
      <Client11nOnly></Client11nOnly>
      <BandwidthAutoswitch></ BandwidthAutoswitch >
    </Radio11n>
  </APGroupRadio11n>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11n
Table type	Multi-instance table
Row name	Radio11n
Restrictions	The table is only for 802.11n and 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
MCSMulticast	The index for multicast MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMulticast must be smaller than or equal to the MCSMandatory.
MCSMandatory	The maximum index for mandatory MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 255.	The MCSMandatory must be smaller than or equal to the MCSSupported, and the MCSMandatory must be greater than or equal to the MCSMulticast.
MCSSupported	The maximum index for supported MCS.	N/A	Unsigned short. Value range: 0 to 76, and 255. Default value is 76.	The MCSSupported must be greater than or equal to the MCSMandatory.
Ampdu	A-mpdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Amsdu	A-msdu function.	N/A	Boolean: true—Enable. false—Disable.	N/A
ShortGI	Short GI function.	N/A	Boolean: true—Enable. false—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Stbc	STBC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Ldpc	LDPC function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Mimo	MIMO.	N/A	Enumeration: 1: 1X1 2: 2X2 3: 3X3 4: 4X4	N/A
Greenap	Green ap function.	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: true—Enable. false—Disable.	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: 1: Auto 2: High-availability 3: High-throughput	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: true—Enable. false—Disable.	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: true—Enable. false—Disable.	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: true—Enable. false—Disable. The column is only for 2.4GHz radio mode, and AP/APGroupRadio/Bandwidth must be 2.	N/A

AP/APGroupRadio11ac

This table contains 802.11ac information of AP group radios.

XML structure

```

<AP>
  <APGroupRadio11ac>
    <Radio11ac>
      <GroupName></GroupName>

```

```

    <ModelName></ModelName>
    <RadioID></RadioID>
    <VHTNSSMulticast></VHTNSSMulticast>
    <VHTMCSMulticast></VHTMCSMulticast>
    <VHTNSSMandatory></VHTNSSMandatory>
    <VHTNSSSupported></VHTNSSSupported>
    <Client11acOnly></Client11acOnly>
  </Radio11ac>
</APGroupRadio11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupRadio11ac
Table type	Multi-instance table
Row name	Radio11ac
Restrictions	The table is only for 802.11ac radio mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModelName	AP model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned short. Value range: 1 to 31.	N/A
VHTNSSMulticast	The NSS for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMulticast must be smaller than or equal to the VHTNSSMandatory.
VHTMCSMulticast	The index for multicast VHT-MCS.	N/A	Unsigned short. Value range: 0 to 9, 255. Default value is 255.	N/A.
VHTNSSMandatory	The maximum NSS for mandatory VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 0.	The VHTNSSMandatory must be smaller than or equal to the VHTNSSSupported, and the VHTNSSMandatory must be greater than or equal to the VHTNSSMulticast.

Column name	Column description	Column type	Data type and restrictions	Remarks
VHTNSSSupported	The maximum NSS for supported VHT-MCS.	N/A	Unsigned short. Value range: 0 to 8. Default value is 8.	The VHTNSSSupported must be greater than or equal to the VHTNSSMandatory.
Client11acOnly	Client dot11ac only function.	N/A	Boolean: true—Enable. false—Disable.	N/A

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```

<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <ACHostName></ACHostName>
      <ACIPv4></ACIPv4>
      <ACIPv6></ACIPv6>
      <DnsDomain></DnsDomain>
      <DnsServerIPv4></DnsServerIPv4>
      <DnsServerIPv6></DnsServerIPv6>
    </Prvs>
  </APGroupPrvs>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvs
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACHostName	Specify an AC by its hostname.	N/A	String. Length: 1 to 253 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	List of string, dotted decimal notation, Separated by comma.	Example: 1.1.1.1, 1.1.1.2.
ACIPv6	Specify an AC by its IPv6 address.	N/A	List of hexadecimal string, colon-separated, Separated by comma.	Example: 1:1::1:1, 1:1::1:2.
DnsDomain	Specify the domain name suffix.	N/A	String. Length: 1 to 253.	N/A
DnsServerIPv4	Specify a DNS server by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
DnsServerIPv6	Specify a DNS server by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

AP/APListOfGroup

This table contains the AP list of AP groups.

XML structure

```
<AP>
  <APListOfGroup>
    <AP>
      <GroupName></GroupName>
      <ApName></ApName>
    </AP>
  </APListOfGroup>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APListOfGroup
Table type	Multi-instance table

Item	Description
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A

AP/Location

This table contains the informations of locations.

XML structure

```

<AP>
  <Location>
    <Location>
      <LocationName></LocationName>
    </Location>
  </Location>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Location
Table type	Multi-instance table
Row name	Location
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Location name	Index	String, lowercase. Length: 1 to 31 characters.	N/A

AP/APAuthentication

This table contains the informations of AP authentication.

XML structure

```
<AP>
  <APAuthentication>
    <Status></Status>
    <Method></Method>
    <PermitUnauth></PermitUnauth>
    <AuthDomain></AuthDomain>
    <AcINumber></AcINumber>
    <AcIName></AcIName>
  </APAuthentication>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APAuthentication
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The status of AP authentication.	N/A	Boolean: true—Enable. false—Disable. Default value is disable.	N/A
Method	The authentication method	N/A	Enumeration: 1—MAC address. 2—Serial ID. Default value is MAC address.	N/A
PermitUnauth	Whether the un-authenticated AP is allowed to join the AC.	N/A	Boolean: true—Allowed. false—Not allowed. Default value is allowed.	N/A
AuthDomain	The ISP domain of remote AP authentication.	N/A	String, case-insensitive. Length: 1 to 24 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	The ACL number of local AP authentication.	N/A	Unsigned short. Value range: 200 to 299.	This column is unavailable when the AC uses an ACL name.
AclName	The ACL name of local AP authentication.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is unavailable when the AC uses an ACL number. The ACL name should not be "all".

AP/HistorySummary

This table contains information of history summary.

XML structure

```

<AP>
  <HistorySummary>
    <Record>
      <Date></Date>
      <Time></Time>
      <ManualApNum></ManualApNum>
      <RunApNum></RunApNum>
      <OfflineApNum></OfflineApNum>
      <UnhealthyApNum></UnhealthyApNum>
      <ApGroupNum></ApGroupNum>
      <LocationNum></LocationNum>
      <NorthIfOutPkt></NorthIfOutPkt>
      <NorthIfOutByte></NorthIfOutByte>
      <NorthIfInPkt></NorthIfInPkt>
      <NorthIfInByte></NorthIfInByte>
    </Record>
  </HistorySummary>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	HistorySummary
Table type	Multi-instance table
Row name	Record
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Date	The date of the record,	Index	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.
Time	The time of the record.	Index	Format: hh:mm. Value range: 00:00 to 23:59.
ManualApNum	Number of manual APs	N/A	Unsigned integer. Value range: 0 to 65535.
RunApNum	Number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.
OfflineApNum	Number of offline APs	N/A	Unsigned integer. Value range: 0 to 65535.
UnhealthyApNum	Number of Unhealthy APs	N/A	Unsigned integer. Value range: 0 to 65535.
ApGroupNum	Number of AP groups	N/A	Unsigned integer. Value range: 0 to 65535.
LocationNum	Number of locations	N/A	Unsigned integer. Value range: 0 to 65535.
NorthIfOutPkt	Packets count of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfOutByte	Throughput statistics of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInPkt	Packets count of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.
NorthIfInByte	Throughput statistics of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.

AP/AllAP

This table contains the information of all APs.

XML structure

```
<AP>
  <AllAP>
    <AP>
      <LocationName></LocationName>
      <Name></Name>
      <LocationName></LocationName>
```

```

    <Type></Type>
    <Status></Status>
    <GroupName></GroupName>
  </AP>
</AllAP>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	AllAP
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationName	Which location the AP belongs to.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
Status	AP associated status	N/A	Enumeration: 1—Online 2—Offline 3—Image downloading	N/A
Type	AP type	N/A	Enumeration: 1—auto 2—manual	N/A
GroupName	The name of AP group which the AP belongs to.	N/A	String, lowercase. Length: 1 to 31 characters.	N/A

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APR

APR/ClearApplicationStatistics

This table contains APR statistics information.

XML structure

```
<APR>
  <ClearApplicationStatistics>
    <Statistic>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Statistic>
  </ClearApplicationStatistics>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	ClearApplicationStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Clear	Resets counters.	N/A	This column must be empty.	N/A

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APR

APR/GeneralPortMappings

This table contains informations about port mappings.

XML structure

```
<APR>
  <GeneralPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </GeneralPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	GeneralPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet. If two port mappings are configured with the same port number and transport layer protocol, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.
Support for row creation and deletion		Yes		

APR/Ipv4PortMappings

This table contains informations about IPv4 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv4PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv4PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6PortMappings

This table contains informations about IPv6 address-based host-port mappings.

XML structure

```

<APR>
  <Ipv6PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>

```

```

    <L4ProtocolID></L4ProtocolID>
    <VRF></VRF>
    <StartIpv6Address></StartIpv6Address>
    <EndIpv6Address></EndIpv6Address>
    <AppName></AppName>
  </PortMapping>
</Ipv6PortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
StartIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated..	Example: 1:1::1:6. This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4SubnetPortMappings

This table contains informations about IPv4 subnet-based host-port mappings.

XML structure

```

<APR>
  <Ipv4SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv4SubnetPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv4SubnetPortMappings
Table type	Multi-instance table

Item	Description
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv4PrefixLength	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 1 to 32.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6SubnetPortMappings

This table contains informations about IPv6 subnet-based host-port mappings.

XML structure

```

<APR>
  <Ipv6SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
    </PortMapping>
  </Ipv6SubnetPortMappings>
</APR>

```

```

    <Ipv6PrefixLength></Ipv6PrefixLength>
    <AppName></AppName>
  </PortMapping>
</Ipv6SubnetPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6SubnetPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: 6—TCP. 17—UDP. 33—DCCP. 132—SCTP. 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv6PrefixLength	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv4ACLPortMappings

This table contains informations about IPv4 ACL-based host-port mappings.

XML structure

```

<APR>
  <Ipv4ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>

```

```

    <L4ProtocolID></L4ProtocolID>
    <ACLNumber></ACLNumber>
    <AppName></AppName>
  </PortMapping>
</Ipv4ACLPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv4ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer protocol ID specified to the application layer protocol	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv6ACLPortMappings

This table contains informations about IPv6 ACL-based host-port mappings.

XML structure

```
<APR>
```

```
  <Ipv6ACLPortMappings>
```



```

    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
    </PortMapping>
  </Ipv6ACLPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer protocol ID specified to the application layer protocol	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/AppGroups

This table contains informations about the user-defined application groups.

XML structure

```
<APR>
  <AppGroups>
```

```

<GroupInfo>
  <GroupName></GroupName>
  <Description></Description>
</GroupInfo>
</AppGroups>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	AppGroups
Table type	Multi-instance table
Row name	GroupInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). Names, such as "invalid" or "other" are not allowed. You can create up to 65536 application groups on the device.
Description	Description for the application group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank space can be included in <i>Description</i> . The default description of the user-defined application group is "User defined group".

APR/AppGroupMembers

This table contains the application protocols included in an user-defined application group.

XML structure

```

<APR>
  <AppGroupMembers>
    <GroupMember>
      <GroupName></GroupName>

```

```

    <AppName></AppName>
  </GroupMember>
</AppGroupMembers>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	AppGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	User-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). Names, such as "invalid" or "other" are not allowed. You can create up to 65536 application groups on the device.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Predefined or user-defined application protocol name which is added to the application group	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. A maximum of 65535 user-defined application protocols can be added to an application group. If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group. Whether the device can recognize the packets of this protocol depends on your configuration.

APR/StatisticOnInterfaces

This table contains the interfaces where statistic is enabled.

XML structure

```

<APR>
  <StatisticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <EnableStatistic></EnableStatistic>
    </Interface>
  </StatisticOnInterfaces>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	StatisticOnInterfaces
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	The direction of the interface	Index	- Enumeration: 0—Inbound. 1—Outbound.	N/A
EnableStatistic	Whether enable statistic for the interface	N/A	- Boolean: - true—YES. - false—NO (default).	N/A

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APR

APR/PredefinedPortMappings

This table contains informations about predefined port mappings.

XML structure

```
<APR>
  <PredefinedPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </PredefinedPortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	PredefinedPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
L4ProtocolID	Transport layer protocol ID.	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name using the port mapping.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment.

APR/GeneralPortMappings

This table contains informations about port mappings.

XML structure

```

<APR>
  <GeneralPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <AppName></AppName>
    </PortMapping>
  </GeneralPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	GeneralPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet. If two port mappings are configured with the same port number and transport layer protocol, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4PortMappings

This table contains informations about IPv4 address-based host-port mappings.

XML structure

```
<APR>
  <Ipv4PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <AppName></AppName>
    </PortMapping>
  </Ipv4PortMappings>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	Ipv4PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartIpv4Address	Start IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6PortMappings

This table contains informations about IPv6 address-based host-port mappings.

XML structure

```

<APR>
  <Ipv6PortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
    </PortMapping>
  </Ipv6PortMappings>
</APR>

```

```

    <L4ProtocolID></L4ProtocolID>
    <VRF></VRF>
    <StartIpv6Address></StartIpv6Address>
    <EndIpv6Address></EndIpv6Address>
    <AppName></AppName>
  </PortMapping>
</Ipv6PortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6PortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified IP address or IP subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and IP address or IP address ranges, but with different application protocols, the most recent configuration takes effect.

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
StartIpv6Address	Start IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. To specify only one IP address, provide only the start IP address. To specify a range of IP addresses, provide both the start and end IP addresses, and make sure the end IP address is bigger than the start IP address. No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.
EndIpv6Address	End IPv6 address	Index	Hexadecimal string, colon-separated..	Example: 1:1::1:6. This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv4SubnetPortMappings

This table contains informations about IPv4 subnet-based host-port mappings.

XML structure

```

<APR>
  <Ipv4SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <AppName></AppName>
    </PortMapping>
  </Ipv4SubnetPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv4SubnetPortMappings
Table type	Multi-instance table

Item	Description
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv4PrefixLength	Length of the IPv4 address mask.	Index	Unsigned integer. Value range: 1 to 32.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Ipv6SubnetPortMappings

This table contains informations about IPv6 subnet-based host-port mappings.

XML structure

```

<APR>
  <Ipv6SubnetPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
    </PortMapping>
  </Ipv6SubnetPortMappings>
</APR>

```

```

    <Ipv6PrefixLength></Ipv6PrefixLength>
    <AppName></AppName>
  </PortMapping>
</Ipv6SubnetPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6SubnetPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets destined for the specified subnet, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and subnet, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer protocol ID	Index	Enumeration: 6—TCP. 17—UDP. 33—DCCP. 132—SCTP. 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	Index	String, case-sensitive. Length: 1 to 31 characters.	If you configure a mapping for the public network, do not specify this option.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. APR uses a very precise method to match the packets. If multiple subnet-based mappings are applied to packets and these subnets overlap, APR matches the packets destined for the overlapped segment with the port mapping of the subnet that has the smallest range.
Ipv6PrefixLength	Length of the IPv6 address prefix.	Index	Unsigned integer. Value range: 1 to 128.	N/A
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv4ACLPortMappings

This table contains informations about IPv4 ACL-based host-port mappings.

XML structure

```

<APR>
  <Ipv4ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>

```

```

    <L4ProtocolID></L4ProtocolID>
    <ACLNumber></ACLNumber>
    <AppName></AppName>
  </PortMapping>
</Ipv4ACLPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv4ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/ Ipv6ACLPortMappings

This table contains informations about IPv6 ACL-based host-port mappings.

XML structure

```

<APR>
  <Ipv6ACLPortMappings>
    <PortMapping>
      <PortNumber></PortNumber>
      <L4ProtocolID></L4ProtocolID>
      <ACLNumber></ACLNumber>
      <AppName></AppName>
    </PortMapping>
  </Ipv6ACLPortMappings>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Ipv6ACLPortMappings
Table type	Multi-instance table
Row name	PortMapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	If the destination port of these packets matches a port mapping for packets matching the specified ACL, APR recognizes them as the specified application protocol's packets. If two port mappings are configured with the same port number, transport layer protocol, and ACL, but with different application protocols, the most recent configuration takes effect.
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite.	This index can be null. If no transport layer protocol is specified, all the transport layer protocol packets and that have the specified port are recognized as the specified application protocol's packets. A mapping with the transport layer protocol specified has a higher priority than one without it.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 2999.	If the destination port of the packet that matches against the specified ACL maps with an application layer protocol, the packet is recognized as the corresponding application layer protocol packet.
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. It can be predefined port mapping application name or the application name which doesn't exist, but the user defined application will be created at the same time. This column is affirmatively chosen item.

APR/Applications

This table contains informations about pre-defined and user-defined applications.

XML structure

```

<APR>
  <Applications>
    <Application>
      <Type></Type>
      <AppName></AppName>
      <AppID></AppID>
      <IsTunnel></IsTunnel>
      <IsEncrypted></IsEncrypted>
    </Application>
  </Applications>
</APR>

```


Table description

Item	Description
Feature name	APR
Table name	Applications
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the application layer protocol	Index	Enumeration: 0—pre-defined. 1—user-defined.	N/A
AppName	Application layer protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment.
AppID	Application layer protocol ID	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
IsTunnel	Whether or not the protocol is a tunnel protocol	N/A	Boolean: - true—YES - false—NO (default).	N/A
IsEncrypted	Whether or not the protocol is a cryptographic protocol	N/A	Boolean: - true—YES - false—NO (default).	N/A

APR/AppGroups

This table contains informations about the application groups.

XML structure

```
<APR>
  <AppGroups>
    <GroupInfo>
      <GroupName></GroupName>
```

```

    <GroupID></GroupID>
    <Type></Type>
    <Description></Description>
  </GroupInfo>
</AppGroups>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	AppGroups
Table type	Multi-instance table
Row name	GroupInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). Names, such as "invalid" or "other" are not allowed. You can create up to 65536 application groups on the device.
GroupID	Application group ID	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Type	Application group type	N/A	- Enumeration: 0—pre-defined. 1—user-defined.	N/A
Description	Description for the application group	N/A	String, case-sensitive. Length: 1 to 127 characters.	Blank space can be included in <i>Description</i> . The default description of the user-defined application group is "User defined group".

APR/AppGroupMembers

This table contains the application protocols included in an application group.

XML structure

```
<APR>
  <AppGroupMembers>
    <GroupMember>
      <GroupName></GroupName>
      <AppName></AppName>
    </GroupMember>
  </AppGroupMembers>
</APR>
```

Table description

Item	Description
Feature name	APR
Table name	AppGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Predefined or user-defined application group name	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). Names, such as "invalid" or "other" are not allowed. You can create up to 65536 application groups on the device.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Predefined or user-defined application protocol name which is added to the application group	Index	String, case-insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment. A maximum of 65535 user-defined application protocols can be added to an application group. If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group. Whether the device can recognize the packets of this protocol depends on your configuration.

APR/StatisticOnInterfaces

This table contains the interfaces where statistic is enabled.

XML structure

```

<APR>
  <StatisticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <EnableStatistic></EnableStatistic>
    </Interface>
  </StatisticOnInterfaces>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	StatisticOnInterfaces
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	The direction of the interface	Index	- Enumeration: 0—Inbound. 1—Outbound.	N/A
EnableStatistic	Whether enable statistic for the interface	N/A	- Boolean: - true—YES. - false—NO (default).	N/A

APR/ApplicationStatistics

This table contains the statistics for the specified application protocols on the interface.

XML structure

```

<APR>
  <ApplicationStatistics>
    <Statistic>
      <IfIndex></IfIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <InPackets></InPackets>
      <InBytes></InBytes>
      <InPPS></InPPS>
      <InBPS></InBPS>
      <OutPackets></OutPackets>
      <OutBytes></OutBytes>
      <OutPPS></OutPPS>
      <OutBPS></OutBPS>
    </Statistic>
  </ApplicationStatistics>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	ApplicationStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Application protocol name	Index	String, case-insensitive. Length: 1 to 63 characters.	The application protocol name must be standard and can be identified by the equipment.
InPackets	Number of packets received by the interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
InBytes	Number of bytes received by the interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
InPPS	Packets received per second by the interface	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
InBPS	Bytes received per second by the interface	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
OutPackets	Number of packets sent by the interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutBytes	Number of bytes sent by the interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
OutPPS	Packets sent per second by the interface	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
OutBPS	Bytes sent per second by the interface	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

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ARP

ARP/ArpScan

This table is used to enable ARP automatic scanning in a specific Ipv4 address range.

XML structure

```
<ARP>
  <ArpScan>
    <Scan>
      <IfIndex></IfIndex>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Scan>
  </ArpScan>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpScan
Table type	Multi-instance table
Row name	Scan
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address Start	The start IPv4 address of the scanning range	N/A	String, dotted decimal notation.	If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides. The start IP address and end IP address must be on the same network as the primary IP address or manually configured secondary IP addresses of the interface.
Ipv4Address End	The end IPv4 address of the scanning range	N/A	String, dotted decimal notation.	Must be specified if the Ipv4AddressStart column is specified.

ARP/ArpFixup

This table is used to change the existing dynamic ARP entries into static ARP entries.

XML structure

```

<ARP>
  <ArpFixup>
    <Fixup>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </Fixup>
  </ArpFixup>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpFixup
Table type	Multi-instance table
Row name	Fixup
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpClearByType

This table is used to clear ARP entries according to ARP entry type.

XML structure

```
<ARP>
  <ArpClearByType>
    <ArpType></ArpType>
  </ArpClearByType>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearByType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ArpType	ARP entry type	N/A	Enumeration: • 0—Dynamic. • 1—Static. • 2—Multiport. • 3—All.

ARP/ArpClearByIfIndex

This table is used to clear dynamic ARP entries according to interface index.

XML structure

```
<ARP>
  <ArpClearByIfIndex>
    <ClearByIfIndex>
      <IfIndex></IfIndex>
    </ClearByIfIndex>
  </ArpClearByIfIndex>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearByIfIndex
Table type	Multi-instance table
Row name	ClearByIfIndex
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface view Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/aggregate subinterface view S-channel interface/S-channel aggregate interface view

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.

ARP/ArpClearTable

This table is used to clear dynamic ARP entries.

XML structure

```
<ARP>
  <ArpClearTable>
    <ClearEntry>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </ClearEntry>
  </ArpClearTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpClearTable
Table type	Multi-instance table
Row name	ClearEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpSnoopingClearByVLAN

This table is used to clear dynamic ARP Snnoping entries according to VLAN..

XML structure

```
<ARP>
  <ArpSnoopingClearByVLAN>
    <ClearByVLAN>
      <VLANID></VLANID>
    </ClearByVLAN>
  </ArpSnoopingClearByVLAN>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingClearByVLAN
Table type	Multi-instance table
Row name	ClearByVLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer.

ARP/ArpSnoopingClearByIP

This table is used to clear dynamic ARP Snnoping entries according to Ipv4 address.

XML structure

```
<ARP>
  <ArpSnoopingClearByIP>
    <ClearByIP>
      <Ipv4Address></Ipv4Address>
    </ClearByIP>
  </ArpSnoopingClearByIP>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingClearByIP
Table type	Multi-instance table
Row name	ClearByIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

ARP/ArpRateLimitAllIf

This table is used to config ARP rate limit on all layer 2 physical interface and layer 2 aggregate interface.

XML structure

```
<ARP>
  <ArpRateLimitAllIf>
    <RateLimitAllIf>
```

```

    <RateLimitEnable></RateLimitEnable>
    <RateLimitNum></RateLimitNum>
  </RateLimitAllIf>
</ArpRateLimitAllIf>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitAllIf
Table type	Multi-instance table
Row name	RateLimitAllIf
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	
RateLimitEnable	Whether the rate limit function is enable.	N/A	Boolean: true (default) false	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

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ARP

ARP/ArpConfig

This table contains ARP configuration information.

XML structure

```
<ARP>
  <ArpConfig>
    <Config>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <ArpType></ArpType>
    </Config>
  </ArpConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpConfig
Table type	Multi-instance table
Row name	Config
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	It must be configured together with the PortIndex column when ArpType is static. It must be specified when ArpType is multiport.
PortIndex	Port index	N/A	Unsigned integer.	It must be configured together with the VLANID column when ArpType is static. It must not be specified when ArpType is multiport.
ArpType	ARP entry type	N/A	Enumeration: 1—Static. 2—Multiport.	Required. If the multiport type is supported depends on the device model.

ARP/ArpGratuitous

This table contains gratuitous ARP packets enable information.

XML structure

```
<ARP>
  <ArpGratuitous>
    <LearnEnable></LearnEnable>
    <SendEnable></SendEnable>
  </ArpGratuitous>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitous
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
LearnEnable	Whether the learning of gratuitous ARP packets function is enable.	N/A	Boolean: • true (default) • false
SendEnable	Whether the function of sending gratuitous ARP packets upon receiving ARP requests whose target IP address is on a different subnet is enable.	N/A	Boolean: • true • false (default)

ARP/ArpLearnLimit

This table contains the information of maximum number of dynamic ARP entries that an interface can learn.

XML structure

```
<ARP>
  <ArpLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <LearnAlarmThreshold></LearnAlarmThreshold>
    </LearnLimit>
  </ArpLearnLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of dynamic ARP entries that an interface can learn	N/A	Unsigned integer. Value range: 0 to LearnMaxNumLimit.	0 means the interface is disabled from learning dynamic ARP entries. The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.
LearnAlarmThreshold	Alarm threshold in percentage	N/A	Unsigned integer. Value range: 0 to 100.	To disable the threshold alarming, set the value to 0. The default setting is 0.

ARP/ArpGratuitousInterval

This table contains the information of periodic sending of gratuitous ARP packets and set the sending interval on an interface.

XML structure

```

<ARP>
  <ArpGratuitousInterval>
    <GratuitousInterval>
      <IfIndex></IfIndex>
      <Interval></Interval>
    </GratuitousInterval>
  </ArpGratuitousInterval>

```

</ARP>

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitousInterval
Table type	Multi-instance table
Row name	GratuitousInterval
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Interval	The interval at which gratuitous ARP packets are sent	N/A	Unsigned integer. Value range: 0, 200 to 200000ms. Default: 0.	0 means disable the interface from periodically sending gratuitous ARP packets.

ARP/ArpProxy

This table contains ARP proxy enable and local ARP proxy enable information.

XML structure

```
<ARP>
  <ArpProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
      <LocalStartIpv4Address></LocalStartIpv4Address>
      <LocalEndIpv4Address></LocalEndIpv4Address>
    </Proxy>
  </ArpProxy>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpProxy
Table type	Single-instance table
Row name	Proxy
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ProxyEnable	Whether the function of proxy arp on the interface is enable.	N/A	Boolean: true false (default)	N/A
LocalProxyEnable	Whether the function of local proxy arp on the interface is enable.	N/A	Boolean: true false (default)	N/A
LocalStartIpv4Address	Start Ipv4 address of the specified address range for local proxy arp	N/A	String, dotted decimal notation.	LocalStartIpv4Address and LocalEndIpv4Address must be configed together. LocalStartIpv4Address and LocalEndIpv4Address can be configured only when local proxy arp on the interface is enabled.
LocalEndIpv4Address	End Ipv4 address of the specified address range for local proxy arp	N/A	String, dotted decimal notation.	N/A

ARP/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<ARP>
  <ArpAttackProtect>
    <ResolvingRouteEnable></ResolvingRouteEnable>
    <SourceSuppressionEnable></SourceSuppressionEnable>
    <SourceSuppressionLimitNum></SourceSuppressionLimitNum>
    <SourceMACDetectType></SourceMACDetectType>
    <SourceMACAgeTime></SourceMACAgeTime>
    <SourceMACThresholdValue></SourceMACThresholdValue>
    <ValidCheckEnable></ValidCheckEnable>
    <ActiveACKType></ActiveACKType>
    <DetectionValidateSrcMAC></DetectionValidateSrcMAC>
    <DetectionValidateDstMAC></DetectionValidateDstMAC>
    <DetectionValidateIP></DetectionValidateIP>
  </ArpAttackProtect>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResolvingRouteEnable	Whether the resolving route function is enable.	N/A	Boolean: true false	The default value of ResolvingRouteEnable depends on the device

				model.
SourceSuppressionEnable	Whether the arp suppression original address function is enable.	N/A	Boolean: • true • false (default)	N/A
SourceSuppressionLimitNum	Set the source suppression limit number	N/A	Unsigned integer. Value range: 2 to 1024. Default: 10.	N/A
SourceMACDetectType	Set the attack detection function of fixed source mac address and select the mode	N/A	Unsigned integer. • 0—Disabled (default). • 1—Filter. • 2—Monitor.	N/A
SourceMACAgeTime	Set the fixed source mac address aging time of arp attack detecton entries	N/A	Unsigned integer. Value range: 60 to 6000. Default: 300.	N/A
SourceMACThresholdValue	Set the fixed source mac address threshold of arp attack detecton entries	N/A	Unsigned integer. Unsigned integer. Value range: uiSourceMinThreshold to uiSourceMaxThreshold.	The value of uiSourceMinThreshold and uiSourceMaxThreshold depend on the device model. The default value of SourceMACThresholdValue depends on the device model.
ValidCheckEnable	Whether the source mac address consistency check function is enable.	N/A	Boolean: • true • false (default)	N/A
ActiveACKType	Enable the active ack function	N/A	Unsigned integer. • 0—Disabled (default). • 1—Loose. • 2—Strict.	N/A
DetectionVa	Whether the	N/A	Boolean:	N/A

lidaSrcMAC	effective checks on the source mac address function is enable		• true • false (default)	
DetectionValidaDstMAC	Whether the effective checks on the destination mac address function is enable	N/A	Boolean: • true • false (default)	N/A
DetectionValidaIP	Whether the effective checks on the ip address is enable.	N/A	Boolean: • true • false (default)	N/A

ARP/ArpRateLimit

This table contains ARP rate limit information.

XML structure

```

<ARP>
  <ArpRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
    </RateLimit>
  </ArpRateLimit>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in IfMgr NETCONF XML API Configuration Reference.
RateLimitEnable	Whether the rate limit function is enable.	N/A	Boolean: true (default) false	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model. The default value of RateLimitNum depends on the device model. RateLimitNum can be configured only when RateLimitEnable is true.

ARP/ArpRateLimitLog

This table contains ARP rate limit log information.

XML structure

<ARP>

```

<ArpRateLimitLog>
  <LogEnable></LogEnable>
  <LogInterval></LogInterval>
</ArpRateLimitLog>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enable.	N/A	Boolean: true false(default)	N/A
LogInterval	Set the interval of sending report or log	N/A	Unsigned integer. Value range: 1 to 86400. Default: 60.	N/A

ARP/ArpSourceMACExclude

This table contains protective source mac address information.

XML structure

```

<ARP>
  <ArpSourceMACExclude>
    <SourceMACExclude>
      <MacAddress></MacAddress>
    </SourceMACExclude>
  </ArpSourceMACExclude>
</ARP>

```

```

    </SourceMACExclude>
  </ArpSourceMACExclude>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACExclude
Table type	Multi-instance table
Row name	SourceMACExclude
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	The MAX number of protective source mac address that can configed depends on the device model.

ARP/ArpAuthorized

This table contains the arp authorized information.

XML structure

```

<ARP>
  <ArpAuthorized>
    <Authorized>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Authorized>
  </ArpAuthorized>

```

</ARP>

Table description

Item	Description
Feature name	ARP
Table name	ArpAuthorized
Table type	Single-instance table
Row name	Authorized
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Enable	Whether the arp authorized	N/A	Boolean:	N/A

	function is enable.		true false (default)	
--	---------------------	--	---	--

ARP/ArpDetection

This table contains the information about arp detections.

XML structure

```
<ARP>
  <ArpDetection>
    <Detect>
      <VLANID></VLANID>
      <DetectionEnable></DetectionEnable>
      <RestrictedForwardingEnable></RestrictedForwardingEnable>
    </Detect>
  </ArpDetection>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetection
Table type	Multi-instance table
Row name	Detect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
DetectionEnable	Whether the arp detection function is enable.	N/A	Boolean: true

			false (default)
RestrictedForwardingEnable	Whether the function of restricted forwarding arp packet is enable.	N/A	Boolean: true false (default)

ARP/ArpDetectionTrust

This table contains the information of interface that arp trusted.

XML structure

```

<ARP>
  <ArpDetectionTrust>
    <Interface>
      <IfIndex></IfIndex>
      <TrustEnable></TrustEnable>
    </Interface>
  </ArpDetectionTrust>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionTrust
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
TrustEnable	Whether the function of trusting interface is enable.	N/A	Boolean: true false	N/A

ARP/ArpFilterSource

This table contains the information about arp gateway protection and protected ip address.

XML structure

```

<ARP>
  <ArpFilterSource>
    <FilterSource>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </FilterSource>
  </ArpFilterSource>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterSource
Table type	Multi-instance table
Row name	FilterSource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv4Address	The protected gateway ip address	Index	String, dotted decimal notation.	N/A

ARP/ArpFilterBinding

This table contains the information about restricting arp packet by source ip address and source mac address.

XML structure

```
<ARP>
  <ArpFilterBinding>
    <FilterBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
    </FilterBinding>
  </ArpFilterBinding>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterBinding
Table type	Multi-instance table
Row name	FilterBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface

				Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv4Address	The permitted ip address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	You cannot specify an MacAddress when you remove or delete a rule.

ARP/ArpSnooping

This table contains the information about the arp snooping entries.

XML structure

```

<ARP>
  <ArpSnooping>
    <Snooping>
      <VLANID></VLANID>
      <SnoopingEnable></SnoopingEnable>
    </Snooping>
  </ArpSnooping>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnooping
Table type	Multi-instance table
Row name	Snooping

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
SnoopingEnable	Whether the arp snooping function is enable.	N/A	Boolean: true false (default)

ARP/ARPInterface

This table contains ARP interface information.

XML structure

```

<ARP>
  <ArpInterface>
    <Interface>
      <IfIndex></IfIndex>
      <ModeUNI></ModeUNI>
    </Interface>
  </ArpInterface>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ARPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	VLAN interfaces

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only VLAN interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ModeUNI	Configure a port as a customer-side port	N/A	Boolean: True—Customer-side port. false—Network-side port (default).	Whether the ModeUNI is supported depends on the device model.

ARP/ArpVsiConfig

This table contains ARP VSI configuration information.

XML structure

```

<ARP>
  <ArpVsiConfig>
    <VsiConfig>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VsiIfIndex></VsiIfIndex>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
    </VsiConfig>
  </ArpVsiConfig>
</ARP>

```



```

    <VsiName></VsiName>
  </VsiConfig>
</ArpVsiConfig>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiConfig
Table type	Multi-instance table
Row name	VsiConfig
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VsilfIndex	VSI interface index	N/A	Unsigned integer.	The VSI interface must be bound to the VSI.
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field must be configured when the port is a Layer 2 Ethernet interface. It must be deleted when the port is a Tunnel interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ARPs.

ARP/ArpRouteAdvertise

This table contains the information about ARP direct route advertisement.

XML structure

```

<ARP>
  <ArpRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </RouteAdvertise>
  </ArpRouteAdvertise>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	This table supports interface types: VE-L3VPN interface VSI interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	VE-L3VPN interface VSI interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Appendix in Ifmgr NETCONF XML API Configuration Reference.
Enable	Whether the arp direct route advertise function is enable.	N/A	Boolean: true false (default)	N/A

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ARP

ARP/ArpTable

This table contains ARP table information.

XML structure

```
<ARP>
  <ArpTable>
    <ArpEntry>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
      <ArpType></ArpType>
    </ArpEntry>
  </ArpTable>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpTable
Table type	Multi-instance table
Row name	ArpEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.

Column name	Column description	Column type	Data type and restrictions
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.
PortIndex	Port index	N/A	Unsigned integer.
VrfIndex	Index of the VRF	N/A	Unsigned integer.
ArpType	ARP entry type	N/A	Enumeration: • 0—Dynamic. • 1—Static. • 2—Multiport. • 3—Rule. • 4—Openflow.

ARP/ArpConfig

This table contains ARP configuration information.

XML structure

```

<ARP>
  <ArpConfig>
    <Config>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <ArpType></ArpType>
    </Config>
  </ArpConfig>
</ARP>

```

Table description

Item	Description
Feature name	ARP

Table name	ArpConfig
Table type	Multi-instance table
Row name	Config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VrfIndex	Index of the VRF	Index	Unsigned integer.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.
PortIndex	Port index	N/A	Unsigned integer.
ArpType	ARP entry type	N/A	Enumeration: • 1—Static. • 2—Multiport.

ARP/ArpGratuitous

This table contains gratuitous ARP packets enable information.

XML structure

```

<ARP>
  <ArpGratuitous>
    <LearnEnable></LearnEnable>
    <SendEnable></SendEnable>
  </ArpGratuitous>
</ARP>

```


Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitous
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LearnEnable	Whether the learning of gratuitous ARP packets function is enable.	N/A	Boolean: • true • false
SendEnable	Whether the function of sending gratuitous ARP packets upon receiving ARP requests whose target IP address is on a different subnet is enable.	N/A	Boolean: • true • false

ARP/ArpLearnLimit

This table contains the information of maximum number of dynamic ARP entries that an interface can learn.

XML structure

```
<ARP>
  <ArpLearnLimit>
```

```

<LearnLimit>
  <IfIndex></IfIndex>
  <LearnMaxNum></LearnMaxNum>
  <LearnAlarmThreshold></LearnAlarmThreshold>
</LearnLimit>
</ArpLearnLimit>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of dynamic ARP entries that an interface can learn	N/A	Unsigned integer. Value range: 0 to LearnMaxNumLimit.	0 means the interface is disabled from learning dynamic ARP entries. The value of LearnMaxNumLimit depends on the device model.

LearnAlarm Threshold	Alarm threshold in percentage	N/A	Unsigned integer. Value range: 0 to 100.	To disable the threshold alarming, set the value to 0.
----------------------	-------------------------------	-----	---	--

ARP/ArpGratuitousInterval

This table contains the information of periodic sending of gratuitous ARP packets and set the sending interval on an interface.

XML structure

```
<ARP>
  <ArpGratuitousInterval>
    <GratuitousInterval>
      <IfIndex></IfIndex>
      <Interval></Interval>
    </GratuitousInterval>
  </ArpGratuitousInterval>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpGratuitousInterval
Table type	Multi-instance table
Row name	GratuitousInterval
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The interval at which gratuitous ARP packets are sent	N/A	Unsigned integer. Value range: 0, 200 to 200000ms.	0 means disable the interface from periodically sending gratuitous ARP packets.

ARP/ArpProxy

This table contains ARP proxy enable and local ARP proxy enable information.

XML structure

```

<ARP>
  <ArpProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
      <LocalStartIpv4Address></LocalStartIpv4Address>
      <LocalEndIpv4Address></LocalEndIpv4Address>
    </Proxy>
  </ArpProxy>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpProxy
Table type	Single-instance table
Row name	Proxy
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
ProxyEnable	Whether the function of proxy arp on the interface is enable.	N/A	Boolean: true false	N/A
LocalProxyEnable	Whether the function of local proxy arp on the interface is enable.	N/A	Boolean: true false	N/A
LocalStartIpv4Address	Start Ipv4 address of the specified address range for local proxy arp	N/A	String, dotted decimal notation.	N/A
LocalEndIpv4Address	End Ipv4 address of the specified address range for local proxy arp	N/A	String, dotted decimal notation.	N/A

ARP/ArpAttackProtect

This table contains ARP attack protect information.

XML structure

```
<ARP>
  <ArpAttackProtect>
    <ResolvingRouteEnable></ResolvingRouteEnable>
    <SourceSuppressionEnable></SourceSuppressionEnable>
    <SourceSuppressionLimitNum></SourceSuppressionLimitNum>
    <SourceMACDetectType></SourceMACDetectType>
    <SourceMACAgeTime></SourceMACAgeTime>
    <SourceMACThresholdValue></SourceMACThresholdValue>
    <ValidCheckEnable></ValidCheckEnable>
```

```

    <ActiveACKType></ActiveACKType>
    <DetectionValidateSrcMAC></DetectionValidateSrcMAC>
    <DetectionValidateDstMAC></DetectionValidateDstMAC>
    <DetectionValidateIP></DetectionValidateIP>
  </ArpAttackProtect>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpAttackProtect
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResolvingRouteEnable	Whether the resolving route function is enable	N/A	Boolean: true false	N/A
SourceSuppressionEnable	Whether the arp suppression original address function is enable.	N/A	Boolean: true false	N/A
SourceSuppressionLimitNum	Set the source suppression limit number	N/A	Unsigned integer. Value range: 2 to 1024.	N/A
SourceMACDetectType	Set the attack detection function of fixed source mac address and select the mode	N/A	Unsigned integer. 0—Disabled. 1—Filter. 2—Monitor.	N/A
SourceMACAgeTime	Set the fixed source mac	N/A	Unsigned integer. Value range: 60 to 6000.	N/A

	address aging time of arp attack detecton entries			
SourceMAC ThresholdV alue	Set the fixed source mac address threshold of arp attack detecton entries	N/A	Unsigned integer.	N/A
ValidCheck Enable	Whether the source mac address consistency check function is enable,	N/A	Boolean: • true • false	N/A
ActiveACKT ype	Enable the active ack function	N/A	Unsigned integer. • 0—Disabled. • 1—Loose. • 2—Strict.	N/A
DetectionVa litateSrcMA C	Whether the effective checks on the source mac address function is enable.	N/A	Boolean: • true • false	N/A
DetectionVa litateDstMA C	Whether the effective checks on the destination mac address function is enable.	N/A	Boolean: • true • false	N/A
DetectionVa litateIP	Whether the effective checks on the ip address function is enable,	N/A	Boolean: • true • false	N/A

ARP/ArpRateLimit

This table contains ARP rate limit information.

XML structure

```
<ARP>
  <ArpRateLimit>
    <RateLimit>
      <IfIndex></IfIndex>
      <RateLimitEnable></RateLimitEnable>
      <RateLimitNum></RateLimitNum>
    </RateLimit>
  </ArpRateLimit>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimit
Table type	Single-instance table
Row name	RateLimit
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
RateLimitEnable	Whether the rate limit function is enable.	N/A	Boolean: true false	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model.

ARP/ArpRateLimitLog

This table contains ARP rate limit log information.

XML structure

```
<ARP>
  <ArpRateLimitLog>
    <LogEnable></LogEnable>
    <LogInterval></LogInterval>
  </ArpRateLimitLog>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRateLimitLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogEnable	Whether the rate limit log function is enable.	N/A	Boolean: true false	N/A
LogInterval	Set the interval of sending report or log	N/A	Unsigned integer. Value range: 1 to 86400.	N/A

ARP/ArpSourceMACExclude

This table contains protective source mac address information.

XML structure

```
<ARP>
  <ArpSourceMACExclude>
    <SourceMACExclude>
      <MacAddress></MacAddress>
    </SourceMACExclude>
  </ArpSourceMACExclude>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACExclude
Table type	Multi-instance table
Row name	SourceMACExclude
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	The MAX number of protective source mac address that can configed depends on the device model.

ARP/ArpSourceMACAttackEntry

This table contains the information about the arp attack detection entries of fixed source mac address.

XML structure

```
<ARP>
```

```

<ArpSourceMACAttackEntry>
  <Entry>
    <DeviceNode>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </DeviceNode>
    <VLANID></VLANID>
    <MacAddress></MacAddress>
    <IfIndex></IfIndex>
    <AgeTime></AgeTime>
  </Entry>
</ArpSourceMACAttackEntry>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSourceMACAttackEntry
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: - Chassis - Slot - CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094,65535.	65535 means the interface is layer 3 Ethernet interface
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	N/A
AgeTime	The remaining aging time of arp attack defense policy entry	N/A	AgeTime	N/A

ARP/ArpAuthorized

This table contains the arp authorized information.

XML structure

```

<ARP>
  <ArpAuthorized>
    <Authorized>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Authorized>
  </ArpAuthorized>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpAuthorized
Table type	Single-instance table
Row name	Authorized
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface

	VLAN interface
--	----------------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface VLAN interface
Enable	Whether the arp authorized function is enable,	N/A	Boolean: true false	N/A

ARP/ArpDetection

This table contains the information about arp detections.

XML structure

```

<ARP>
  <ArpDetection>
    <Detect>
      <VLANID></VLANID>
      <DetectionEnable></DetectionEnable>
      <RestrictedForwardingEnable></RestrictedForwardingEnable>
    </Detect>
  </ArpDetection>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetection
Table type	Multi-instance table

Row name	Detect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094
DetectionEnable	Whether the arp detection function is enable.	N/A	Boolean: true false
RestrictedForwardingEnable	Whether the function of restricted forwarding arp packet is enable.	N/A	Boolean: true false

ARP/ArpDetectionTrust

This table contains the information of interface that arp trusted.

XML structure

```

<ARP>
  <ArpDetectionTrust>
    <Interface>
      <IfIndex></IfIndex>
      <TrustEnable></TrustEnable>
    </Interface>
  </ArpDetectionTrust>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpDetectionTrust
Table type	Multi-instance table

Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface
TrustEnable	Whether the function of trusting interface is enable.	N/A	Boolean: true false	N/A

ARP/ArpFilterSource

This table contains the information about arp gateway protection and protected ip address.

XML structure

```

<ARP>
  <ArpFilterSource>
    <FilterSource>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </FilterSource>
  </ArpFilterSource>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpFilterSource

Table type	Multi-instance table
Row name	FilterSource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface
Ipv4Address	The protected gateway ip address	Index	String, dotted decimal notation.	N/A

ARP/ArpFilterBinding

This table contains the information about restricting arp packet by source ip address and source mac address.

XML structure

```

<ARP>
  <ArpFilterBinding>
    <FilterBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
    </FilterBinding>
  </ArpFilterBinding>
</ARP>

```


Table description

Item	Description
Feature name	ARP
Table name	ArpFilterBinding
Table type	Multi-instance table
Row name	FilterBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
Ipv4Address	The permitted ip address	Index	String, dotted decimal notation.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.

ARP/ArpSpecification

This table contains ARP specification information.

XML structure

```
<ARP>
  <ArpSpecification>
    <SupportMultiport></SupportMultiport>
    <RateLimitDefault></RateLimitDefault>
    <RateLimitLowerLimit></RateLimitLowerLimit>
    <RateLimitUpperLimit></RateLimitUpperLimit>
    <SMACDefaultThreshold></SMACDefaultThreshold>
    <SMACMinThreshold></SMACMinThreshold>
    <SMACMaxThreshold></SMACMaxThreshold>
    <SupportDetection></SupportDetection>
```

```

    <SupportFilter></SupportFilter>
    <SupportSnooping></SupportSnooping>
    <IntervalDefault></IntervalDefault>
    <LearnMaxNumLimit></LearnMaxNumLimit>
    <LearnMaxNumDefault></LearnMaxNumDefault>
  </ArpSpecification>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportMulti port	Whether the multiport ARP entry is supported.	N/A	Boolean: true false	N/A
RateLimitDefault	The default limit of rate.	N/A	Unsigned integer.	N/A
RateLimitLowerLimit	The lower limit of rate.	N/A	Unsigned integer.	0 means that ARP rate limit isn't supported.
RateLimitUpperLimit	The upper limit of rate.	N/A	Unsigned integer.	0 means that ARP rate limit isn't supported.
SMACDefaultThreshold	The default of threshold.	N/A	Unsigned integer.	N/A
SMACMinThreshold	The minimum of threshold.	N/A	Unsigned integer.	N/A
SMACMaxThreshold	The maximum of threshold.	N/A	Unsigned integer.	N/A

SupportDetection	Whether ARP detection is supported..	N/A	Boolean: true false	N/A
SupportFilter	Whether ARP filter is supported..	N/A	Boolean: true false	N/A
SupportSnopping	Whether ARP Snooping is supported.	N/A	Boolean: true false	N/A
IntervalDefault	The default of interval.	N/A	Unsigned integer. Value range: 0 to 200000.	N/A
LearnMaximumLimit	The limit of max learn number.	N/A	Unsigned integer.	N/A
LearnMaximumDefault	The default of max learn number.	N/A	Unsigned integer.	N/A

ARP/ ArpSnoopingEntry

This table contains the information about the arp snooping entries.

XML structure

```

<ARP>
  <ArpSnoopingEntry>
    <SnoopingEntry>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <AgeTime></AgeTime>
    </SnoopingEntry>
  </ArpSnoopingEntry>
</ARP>

```

```

    </SnoopingEntry>
  </ArpSnoopingEntry>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnoopingEntry
Table type	Multi-instance table
Row name	SnoopingEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	The information of Device Node	Data structure	Members include: - Chassis - Slot - CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 2 aggregate interface
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Status	State of a entry	N/A	Enumeration: • 1—Valid. • 2—Invalid. • 3—Collision.	N/A
AgeTime	The remaining aging time of arp attack defense policy entry	N/A	AgeTime	N/A

ARP/ArpSnooping

This table contains the information about the arp snooping entries.

XML structure

```

<ARP>
  <ArpSnooping>
    <Snooping>
      <VLANID></VLANID>
      <SnoopingEnable></SnoopingEnable>
    </Snooping>
  </ArpSnooping>
</ARP>

```

Table description

Item	Description
Feature name	ARP
Table name	ArpSnooping
Table type	Multi-instance table
Row name	Snooping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
SnoopingEnable	Whether the arp snooping function is supported.	N/A	Boolean: true false	N/A

ARP/ArpInterface

This table contains ARP interface information.

XML structure

```
<ARP>
  <ArpInterface>
    <Interface>
      <IfIndex></IfIndex>
      <ModeUNI></ModeUNI>
    </Interface>
  </ArpInterface>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	VLAN interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only VLAN interfaces are supported
ModeUNI	Configure a port as a customer-side port	N/A	Boolean: true—Customer-side port. false—Network-side port.	N/A

ARP/ArpVsiConfig

This table contains ARP VSI configuration information.

XML structure

```
<ARP>
  <ArpVsiConfig>
    <VsiConfig>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VsiIfIndex></VsiIfIndex>
      <PortIndex></PortIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
    </VsiConfig>
  </ArpVsiConfig>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpVsiConfig
Table type	Multi-instance table

Row name	VsiConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
VsilfIndex	VSI interface index	N/A	Unsigned integer.	N/A
PortIndex	Port index	N/A	Unsigned integer.	The port can only be a Layer 2 Ethernet interface or a Tunnel interface.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	This field cannot be displayed when the port is a Tunnel interface. It is displayed when the port is a Layer 2 Ethernet interface.
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A

ARP/ArpRouteAdvertise

This table contains the information about ARP direct route advertisement.

XML structure

```
<ARP>
  <ArpRouteAdvertise>
    <RouteAdvertise>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </RouteAdvertise>
  </ArpRouteAdvertise>
</ARP>
```

Table description

Item	Description
Feature name	ARP
Table name	ArpRouteAdvertise
Table type	Multi-instance table
Row name	RouteAdvertise
Restrictions	This table supports interface types: VE-L3VPN interface VSI interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	VE-L3VPN interface VSI interface
Enable	Whether the arp direct route advertise function is enable.	N/A	Boolean: true false	N/A

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ASPF

ASPF/Policies

This table contains ASPF policy configurations.

XML structure

```
<ASPF>
  <Policies>
    <Policy>
      <PolicyNumber></PolicyNumber>
      <ICMPErrDrop></ICMPErrDrop>
      <TCPSynCheck></TCPSynCheck>
    </Policy>
  </Policies>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ICMPErrDrop	Whether enable ICMP error message check and drop faked messages.	N/A	Boolean: true—YES. false—NO(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPSynCheck	Whether enable TCP SYN check.	N/A	Boolean: true—YES false—NO(default).	TCP SYN check checks the first packet to establish a TCP connection whether it is a SYN packet. If the first packet is not a SYN packet, ASPF drops the packet.

ASPF/DetectL4Protocols

This table contains the transport layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectL4Protocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <EnableDetect></EnableDetect>
    </Protocol>
  </DetectL4Protocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectL4Protocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	The detected transport layer protocol ID.	Index	Unsigned integer. Value range: 1 to 8.	• 1—TCP. • 2—UDP. • 3—UDP-Lite. • 4—ICMP. • 5—ICMPv6. • 6—SCTP. • 7—DCCP. • 8—RAWIP.
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A

ASPF/DetectAppProtocols

This table contains the application layer protocols inspected by ASPF policies.

XML structure

```

<ASPF>
  <DetectAppProtocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <EnableDetect></EnableDetect>
      <IllegalPacketAction></IllegalPacketAction>
    </Protocol>
  </DetectAppProtocols>
</ASPF>

```

Table description

Item	Description
Feature name	ASPF
Table name	DetectAppProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ProtocolID	The detected application layer protocol ID.	Index	Unsigned integer. Value range: 1 to 17.	• 1—FTP. • 2—GTP. • 3—H323. • 4—RTSP. • 5—SIP. • 6—TFTP. • 7—ILS. • 8—MGCP. • 9—NBT. • 10—PPTP. • 11—RSH. • 12—SCCP. • 13—SQLNET. • 14—XDMCP. • 15—HTTP. • 16—SMTP. • 17—DNS. Support for HTTP, SMTP and DNS depends on the device model.
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A
IllegalPacket Action	Action for illegal packets.	N/A	Enumeration: • 0—None. • 1—Drop illegal packets. • 2—Log illegal packets. • 3—Drop and log illegal packets.	Only the following application support the configuration: • 1—FTP. • 3—H323. • 5—SIP. • 12—SCCP. • 15—HTTP. • 16—SMTP. • 17—DNS. Support for this column depends on the device model.

ASPF/AspfOnInterfaces

This table contains ASPF policies applied to the interfaces.

XML structure

```
<ASPF>
  <AspfOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InPolicyNumber></InPolicyNumber>
      <OutPolicyNumber></OutPolicyNumber>
    </Interface>
  </AspfOnInterfaces>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface. To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface. Make sure a connection initiation packet and the response packet pass through the same interface, because an ASPF stores and maintains the application layer protocol status based on interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
InPolicyNumber	ASPF policy applied to the inbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the inbound direction of an interface.
OutPolicyNumber	ASPF policy applied to the outbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the outbound direction of an interface.

ASPF/AspfOnInterZones

This table contains ASPF policies applied to the inter-Zones.

XML structure

```

<ASPF>
  <AspfOnInterZones>
    <InterZone>
      <ZonePair>
        <SourceZone></SourceZone>
        <DestinationZone></DestinationZone>
      </ZonePair>
      <PolicyNumber></PolicyNumber>
    </InterZone>
  </AspfOnInterZones>
</ASPF>

```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZonePair	Inter-Zone information.	Data structure.	Members include: - SourceZone. - DestinationZone.	N/A
SourceZone	Source zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
PolicyNumber	ASPF policy number.	N/A	Unsigned integer. Value range: 1 to 256.	N/A

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ASPF

ASPF/Policies

This table contains ASPF policy configurations.

XML structure

```
<ASPF>
  <Policies>
    <Policy>
      <PolicyNumber></PolicyNumber>
      <ICMPErrDrop></ICMPErrDrop>
      <TCPSynCheck></TCPSynCheck>
    </Policy>
  </Policies>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ICMPErrDrop	Whether enable ICMP error message check and drop faked messages.	N/A	Boolean: true—YES. false—NO(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TCPSynCheck	Whether enable TCP SYN check.	N/A	Boolean: true—YES false—NO(default).	TCP SYN check checks the first packet to establish a TCP connection whether it is a SYN packet. If the first packet is not a SYN packet, ASPF drops the packet.

ASPF/DetectL4Protocols

This table contains the transport layer protocols inspected by ASPF policies.

XML structure

```
<ASPF>
  <DetectL4Protocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableDetect></EnableDetect>
    </Protocol>
  </DetectL4Protocols>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	DetectL4Protocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	The detected transport layer protocol ID.	Index	Unsigned integer. Value range: 1 to 8.	• 1—TCP. • 2—UDP. • 3—UDP-Lite. • 4—ICMP. • 5—ICMPv6. • 6—SCTP. • 7—DCCP. • 8—RAWIP.
ProtocolName	The detected transport layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A

ASPF/DetectAppProtocols

This table contains the application layer protocols inspected by ASPF policies.

XML structure

```

<ASPF>
  <DetectAppProtocols>
    <Protocol>
      <PolicyNumber></PolicyNumber>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableDetect></EnableDetect>
      <IllegalPacketAction></IllegalPacketAction>
    </Protocol>
  </DetectAppProtocols>
</ASPF>

```

Table description

Item	Description
Feature name	ASPF
Table name	DetectAppProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	ASPF policy number.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ProtocolID	The detected application layer protocol ID.	Index	Unsigned integer. Value range: 1 to 17.	• 1—FTP. • 2—GTP. • 3—H323. • 4—RTSP. • 5—SIP. • 6—TFTP. • 7—ILS. • 8—MGCP. • 9—NBT. • 10—PPTP. • 11—RSH. • 12—SCCP. • 13—SQLNET. • 14—XDMCP. • 15—HTTP. • 16—SMTP. • 17—DNS. Support for HTTP, SMTP and DNS depends on the device model.
ProtocolName	The detected application layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableDetect	Whether enable detection.	N/A	Boolean: • true—YES • false—NO(default).	N/A
IllegalPacket Action	Action for illegal packets.	N/A	Enumeration: • 0—None. • 1—Drop illegal packets. • 2—Log illegal packets. • 3—Drop and log illegal packets.	Only the following application support the configuration: • 1—FTP. • 3—H323. • 5—SIP. • 12—SCCP. • 15—HTTP. • 16—SMTP. • 17—DNS. Support for this column depends on the device model.

ASPF/AspfOnInterfaces

This table contains ASPF policies applied to the interfaces.

XML structure

```
<ASPF>
  <AspfOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InPolicyNumber></InPolicyNumber>
      <OutPolicyNumber></OutPolicyNumber>
    </Interface>
  </AspfOnInterfaces>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface. To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface. Make sure a connection initiation packet and the response packet pass through the same interface, because an ASPF stores and maintains the application layer protocol status based on interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
InPolicyNumber	ASPF policy applied to the inbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the inbound direction of an interface.
OutPolicyNumber	ASPF policy applied to the outbound direction of the interface.	N/A	Unsigned integer. Value range: 1 to 256.	Up to one ASPF policy can be applied to the outbound direction of an interface.

ASPF/AspfOnInterZones

This table contains ASPF policies applied to the inter-Zones.

XML structure

```

<ASPF>
  <AspfOnInterZones>
    <InterZone>
      <ZonePair>
        <SourceZone></SourceZone>
        <DestinationZone></DestinationZone>
      </ZonePair>
      <PolicyNumber></PolicyNumber>
    </InterZone>
  </AspfOnInterZones>
</ASPF>

```

Table description

Item	Description
Feature name	ASPF
Table name	AspfOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZonePair	Inter-Zone information.	Data structure.	Members include: - SourceZone. - DestinationZone.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination zone name.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
PolicyNumber	ASPF policy number.	N/A	Unsigned integer. Value range: 1 to 256.	N/A

ASPF/Specification

This table contains specification information of the current device.

XML structure

```

<ASPF>
  <Specification>
    <InterfaceApply></InterfaceApply>
    <ZonePairApply></ZonePairApply>
    <DetectAppAction></DetectAppAction>
    <DetectDCCP></DetectDCCP>
    <DetectDNS></DetectDNS>
    <DetectFTP></DetectFTP>
    <DetectGTP></DetectGTP>
    <DetectH323></DetectH323>
    <DetectHTTP></DetectHTTP>
    <DetectICMP></DetectICMP>
    <DetectICMPv6></DetectICMPv6>
    <DetectILS></DetectILS>
    <DetectMGCP></DetectMGCP>
    <DetectNBT></DetectNBT>
    <DetectPPTP></DetectPPTP>
    <DetectRAWIP></DetectRAWIP>
    <DetectRSH></DetectRSH>
    <DetectRTSP></DetectRTSP>
    <DetectSCCP></DetectSCCP>
    <DetectSCTP></DetectSCTP>
    <DetectSIP></DetectSIP>
    <DetectSMTP></DetectSMTP>
    <DetectSQLNET></DetectSQLNET>
    <DetectTCP></DetectTCP>
    <DetectTFTP></DetectTFTP>
    <DetectUDP></DetectUDP>
    <DetectUDPLite></DetectUDPLite>
    <DetectXMCP></DetectXMCP>
  
```

```
</Specification>
</ASPF>
```

Table description

Item	Description
Feature name	ASPF
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InterfaceApply	Support apply an ASPF policy to interfaces.	N/A	Boolean: • true • false	N/A
ZonePairApply	Support apply an ASPF policy to security zone pairs.	N/A	Boolean: • true • false	N/A
DetectAppAction	Whether support set illegal packet's action of application layer protocol.	N/A	Boolean: • true • false	N/A
DetectDCCP	Whether support DCCP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectDNS	Whether support DNS application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectFTP	Whether support FTP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectGTP	Whether support GTP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectH323	Whether support H323 application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectHTTP	Whether support HTTP application layer protocol detection.	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectICMP	Whether support ICMP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectICMPv6	Whether support ICMPv6 transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectILS	Whether support ILS application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectMGCP	Whether support MGCP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectNBT	Whether support NBT application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectPPTP	Whether support PPTP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectRAWIP	Whether support RAWIP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectRSH	Whether support RSH application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectRTSP	Whether support RTSP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectSCCP	Whether support SCCP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectSCTP	Whether support SCTP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectSIP	Whether support SIP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectSMTP	Whether support SMTP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectSQLNET	Whether support SQLNET application layer protocol detection.	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetectTCP	Whether support TCP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectTFTP	Whether support TFTP application layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectUDP	Whether support UDP transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectUDP-Lite	Whether support UDP-Lite transport layer protocol detection.	N/A	Boolean: • true • false	N/A
DetectXDMCP	Whether support XDMCP application layer protocol detection.	N/A	Boolean: • true • false	N/A

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ATK

ATK/ClearInterfaceAttackStatistics

This table is used to clear interface ATK statistics.

XML structure

```
<ATK>
  <ClearInterfaceAttackStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Statistics>
  </ClearInterfaceAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearInterfaceAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Clear	Clear interface statistics	N/A	This column must be empty.

ATK/ClearLocalAttackStatistics

This table is used to clear local ATK statistics.

XML structure

```
<ATK>
  <ClearLocalAttackStatistics>
    <Clear></Clear>
  </ClearLocalAttackStatistics>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearLocalAttackStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear local statistics	N/A	This column must be empty.

ATK/ClearZoneAttackStatistics

This table is used to clear ATK statistics for a security zone.

XML structure

```
<ATK>
  <ClearZoneAttackStatistics >
    <Statistics>
      <ZoneID></ZoneID>
      <Clear></Clear>
    </Statistics>
  </ClearZoneAttackStatistics >
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearZoneAttackStatistics

Item	Description
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Clear	Clear ATK statistics	N/A	This column must be empty.

ATK/Blacklist/IPv4Blacklists

This table is used to clear ipv4blacklist.

XML structure

```

<ATK>
  <Blacklist>
    <IPv4Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <Clear></Clear>
      </Item>
    </IPv4Blacklists>
  </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vpn index	Index	Unsigned integer.	N/A
Ipv4Address	Ip address	Index	Ipv4 address.	N/A
DSLitePeer	Ip address	Index	Ipv6 address	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other circumstances.
Clear	Clear local statistics	N/A	This column must be empty.	N/A

ATK/Blacklist/IPv6Blacklists

This table is used to clear ipv6blacklist.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <Clear></Clear>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
VrfIndex	Vpn index	Index	Unsigned integer.
Ipv6Address	Ip address	Index	Ipv6 address.
Clear	Clear local statistics	N/A	This column must be empty.

ATK/Blacklist/ClearItems

This table is used to clear blacklist items.

XML structure

```
<ATK>
  <Blacklist>
    <ClearItems>
      <Item>
        <AddrFamily></AddrFamily>
        <Clear></Clear>
      </Item>
    </ClearItems>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearItems
Table type	Multi-instance table
Row name	item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AddrFamily	Address family	Index	Enumeration: • 2—IPv4. • 10—IPv6.

Column name	Column description	Column type	Data type and restrictions
Clear	Clear blacklist items	N/A	This column must be empty.

ATK/Blacklist/ClearStatistics

This table is used to clear blacklist statistics.

XML structure

```
<ATK>
  <Blacklist>
    <ClearStatistics>
      <Clear></Clear>
    </ClearStatistics>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ClearStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear blacklist statistics	N/A	This column must be empty.

ATK/ClientVerify/ClearProtectHostStatistics

This table is used to clear client verification protected hosts' statistics.

XML structure

```
<ATK>
```

```

<ClientVerify>
  <ClearProtectHostStatistics>
    <Statistics>
      <VerifyType></VerifyType>
      <AddrFamily></AddrFamily>
      <Clear></Clear>
    </Statistics>
  </ClearProtectHostStatistics>
</ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ClearProtectHostStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.
AddrFamily	Address family	Index	Enumeration: 2—IPv4. 10—IPv6.
Clear	Clear protected hosts' statistics	N/A	This column must be empty.

ATK/ClientVerify/ClearTrustClients

This table is used to clear client verification authenticated clients.

XML structure

```

<ATK>
  <ClientVerify>

```

```

<ClearTrustClients>
  <Client>
    <VerifyType></VerifyType>
    <AddrFamily></AddrFamily>
    <Clear></Clear>
  </Client>
</ClearTrustClients>
</ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ClearTrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.
AddrFamily	Address family	Index	Enumeration: 2—IPv4. 10—IPv6.
Clear	Clear trust clients	N/A	This column must be empty.

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XML structure	35
Table description	35
Columns	35

ATK

ATK/Policies

This table is used to operate ATK policies.

XML structure

```
<ATK>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyInterfaces

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyInterfaces>
```



```

    <Apply>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyInterfaces>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	PolicyInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyZones

This table is used to apply an attack defense policy to a security zone.

XML structure

```

<ATK>
  <PolicyZones>
    <Apply>
      <ZoneID></ZoneID>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyZones>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	PolicyZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
PolicyName	Attack defense policy name	N/A	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).

ATK/PolicyLocal

This table is used to operate local ATK policy appliance.

XML structure

```
<ATK>
  <PolicyLocal>
    <PolicyName></PolicyName>
  </PolicyLocal>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyLocal
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/IPv4Exempts

This table contains IPv4 exemption information

XML structure

```
<ATK>
  <IPv4Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </Exempt>
  </IPv4Exempts>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Ac lNum	Ac l number	N/A	Unsigned integer. Value range: 2000 to 3999	Ac lNum and Ac lName are

Column name	Column description	Column type	Data type and restrictions	Remarks
				mutual exclusive and only one of them can be set in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/IPv6Exempts

This table contains IPv6 exemption information

XML structure

```

<ATK>
  <IPv6Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </Exempt>
  </IPv6Exempts>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AclNum	Acl number	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.
AclName	Acl name	N/A	String. Length: 1 to 63 characters.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message.

ATK/Scan/Policies

This table contains scan policy information.

XML structure

```
<ATK>
  <Scan>
    <Policies>
      <Policy>
        <PolicyName></PolicyName>
        <Level></Level>
        <UserDefinedCfg>
          <PortScanEnable></PortScanEnable>
          <PortScanThreshold></PortScanThreshold>
          <IPSweepEnable></IPSweepEnable>
          <IPSweepThreshold></IPSweepThreshold>
          <Period></Period>
        </UserDefinedCfg>
        <Log></Log>
        <Drop></Drop>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
      </Policy>
    </Policies>
```

</Scan>
</ATK>

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String,case-insensitive. Length: 1 to 31 characters.	N/A
Level	Scan detect level	N/A	Enumeration: • 0—Don't detect. • 1—Low sensibility. • 2—Middle sensibility. • 3—High sensibility. • 4—User defined sensibility.	UserDefinedCfg and its members are available only in scan detect level 4.
UserDefinedCfg	Custom scan detection configuration.	Data struct	Members include: • PortScanEnable • PortScanThreshold • IPSweepEnable • IPSweepThreshold Period	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: • true. • false.	Default is false.
PortScanThreshold	Port scan detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if PortScanEnable is true.
IPSweepEnable	IP sweep detection switch.	N/A	Boolean: • true. • false.	Default is false.
IPSweepThreshold	IP sweep detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if IPSweepEnable is true.

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Detection cycle.	N/A	Signed integer. Value range: 1 to 1000000000 seconds.	Default detection cycle is 10 seconds.
Log	Log switch	N/A	Boolean: • true • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • true • false	Default is false. Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
BlockSource	Block source configs	Data struct	Members include: • Enable • BlockTime	Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
Enable	Block source switch.	N/A	Boolean: • true • false	Default is false.
BlockTime	Source block duration.	N/A	Unsigned integer, value range 1 to 1000 minutes.	Default is 10 minutes. When and only when Enable is true, this column is useful.

ATK/Flood/DefaultConfigs

This table contains flood default configurations.

XML structure

```

<ATK>
  <Flood>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <Threshold></Threshold>

```

```

    <MonitorPort></MonitorPort>
    <NonSpecificSwitch></NonSpecificSwitch>
  </Config>
</DefaultConfigs>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood. 7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	N/A
Log	Log switch	N/A	Boolean:	Default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
			true - false	
Drop	Drop packet switch	N/A	Boolean: true - false	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: true - false	Default is false.
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	Default value is 1000
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. For http flood, default monitored port is 80. For DNS flood, default monitored port is 53. For example, "80,8000-8080" can be set as default monitored ports for http flood detecting. At most specify a maximum of 32 port items.
NonSpecificSwitch	Non specific protect hosts detect switch	N/A	Boolean: true - false	Default value is false which means only detect protect hosts.

ATK/Flood/IPv4ProtectHosts

This table contains IPv4 flood protect hosts information.

XML structure

```

<ATK>
  <Flood>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
      </Host>
    </IPv4ProtectHosts>
  </Flood>
</ATK>

```

```

    <SubType></SubType>
    <VrfName></VrfName>
    <Ipv4Address></Ipv4Address>
    <Threshold></Threshold>
    <Log></Log>
    <Drop></Drop>
    <ClientVerify></ClientVerify>
    <MonitorPort></MonitorPort>
  </Host>
</IPv4ProtectHosts>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv4Address	IPv4 protected host address	Index	IPv4 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: - true - false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: - true - false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: - true - false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/IPv6ProtectHosts

This table contains IPv6 flood protect hosts information.

XML structure

```

<ATK>
  <Flood>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
      </Host>
    </IPv6ProtectHosts>
  </Flood>
</ATK>

```

```

    <SubType></SubType>
    <VrfName></VrfName>
    <Ipv6Address></Ipv6Address>
    <Threshold></Threshold>
    <Log></Log>
    <Drop></Drop>
    <ClientVerify></ClientVerify>
    <MonitorPort></MonitorPort>
  </Host>
</IPv6ProtectHosts>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.
Ipv6Address	IPv6 protected host address	Index	IPv6 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: - true - false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: - true - false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: - true - false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/LearnItems

This table contains flow threshold learning information.

XML structure

```

<ATK>
  <Flood>
    <LearnItems>
      <Item>
        <PolicyName></PolicyName>
        <Status></Status>

```

```

    <TimeValue></TimeValue>
    <Mode></Mode>
    <IntervalValue></IntervalValue>
    <AutoApply></AutoApply>
    <Scope></Scope>
  </Item>
</LearnItems>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	LearnItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Learning switch	N/A	Boolean: - true - false	Default is false.
TimeValue	Time value	N/A	Unsigned integer. Value range: 1 to 1200000 minutes.	Default is 1440 minutes.
Mode	Learning mode	N/A	Enumeration: 0—Single. 1—Cycle.	N/A
IntervalValue	Interval value for cycle mode	N/A	Unsigned integer, value range: 1 to 1200000 minutes.	When and only when mode is cycle, this column is useful. Default is 1440 minutes.
AutoApply	Auto application switch	N/A	Boolean: - true - false	Default is false.
Scope	Deviation of study	N/A	Unsigned integer.	Only when AutoApply is

Column name	Column description	Column type	Data type and restrictions	Remarks
	result		Value range: 0 to 4000.	true, this column is useful. Default is 50.

ATK/Signature/Detects

This table contains signature detects' information.

XML structure

```

<ATK>
  <Signature>
    <Detects>
      <Detect>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
      </Detect>
    </Detects>
  </Signature>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	Detects
Table type	Multi-instance table
Row name	Detect
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main signature	Index	Enumeration:	N/A

Column name	Column description type	Column type	Data type and restrictions	Remarks
			0—Named single packet attack. 1—IP option single packet attack. 2—ICMP single packet attack. 3—ICMPv6 single packet attack. 4—IPv6 extend header attack.	
SubType	Sub signature type	Index	Enumeration, value range varies according to MainType. For named single packet attack: 0—IP fragment. 1—IP impossible. 2—Teardrop 3—Tiny fragment 4—Abnormal 5—Smurf 6—Trace route 7—Ping of death 8—Large ICMP 9—Large ICMPv6 10—TCP invalid flags 11—TCP null flag 12—TCP all flags 13—TCP SYN FIN flags 14—TCP FIN only 15—Land 16—Winnuke 17—UDP bomb 18—Snork 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. 7—Record route option. 68—Timestamp option. 130—Security option. 131—Loose source routing option. 136—Stream identifier option. 137—Strict source	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			route option. 148—Route alert option. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. 8—ICMP echo request. 0—ICMP echo reply. 4—ICMP source quench. 3—ICMP destination unreachable. 5—ICMP redirect. 11—ICMP time exceeded. 12—ICMP parameter problem. 13—ICMP timestamp request. 14—ICMP timestamp reply. 15—ICMP information request. 16—ICMP information reply. 17—ICMP address mask request. 18—ICMP address mask reply. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. 128—ICMPv6 echo request. 129—ICMPv6 echo reply. 130—ICMPv6 group query. 131—ICMPv6 group report. 132—ICMPv6 group reduction. 1—ICMPv6 destination unreachable. 3—ICMPv6 time exceeded. 4—ICMPv6 parameter problem. 2—ICMPv6 packet	

Column name	Column description	Column type	Data type and restrictions	Remarks
			too big. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.	
Log	Log switch	N/A	Boolean: • true • false	Default is false.
Drop	Drop packet switch	N/A	Boolean: • true • false	Default is false.

ATK/Signature/LargeICMPLength

This table contains large ICMP and ICMPv6 signature information.

XML structure

```

<ATK>
  <Signature>
    <LargeICMPLength>
      <Policy>
        <PolicyName></PolicyName>
        <IPv4Threshold></IPv4Threshold>
        <IPv6Threshold></IPv6Threshold>
      </Policy>
    </LargeICMPLength>
  </Signature>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	LargeICMPLength
Table type	Multi-instance table
Row name	Policy
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IPv4Threshold	ICMP packet length threshold	N/A	Unsigned integer, value range: 28 to 65534 bytes.	Default is 4000 bytes.
IPv6Threshold	ICMPv6 packet length threshold	N/A	Unsigned integer, value range: 48 to 65534 bytes.	Default is 4000 bytes.

ATK/Signature/LevelActions

This table contains signature level action information.

XML structure

```
<ATK>
  <Signature>
    <LevelActions>
      <LevelAction>
        <PolicyName></PolicyName>
        <Level></Level>
        <Log></Log>
        <Drop></Drop>
      </LevelAction>
    </LevelActions>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LevelActions
Table type	Multi-instance table
Row name	LevelAction
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Level	Severity level	Index	Enumeration: 0—Information. 1—Low. 2—Medium. 3—High.	N/A
Log	Log switch	N/A	Boolean: true - false	Default value is true
Drop	Drop packet switch	N/A	Boolean: true - false	The default value varies by severity level. For information level or low level, default value is false. For medium level or high level default value is true.

ATK/Signature/LogAggregate

This table contains signature log aggregation information.

XML structure

```

<ATK>
  <Signature>
    <LogAggregate>
      <Enable></Enable>
    </LogAggregate>
  </Signature>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	LogAggregate
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Log aggregate switch.	N/A	Boolean: true false	Default is true.

ATK/Blacklist/IPv4Blacklists

This table contains IPv4 blacklist information.

XML structure

```

<ATK>
  <Blacklist>
    <IPv4Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <TTL></TTL>
      </Item>
    </IPv4Blacklists>
  </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other circumstances.
TTL	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 60000 second.	N/A

ATK/Blacklist/IPv6Blacklists

This table contains IPv6 blacklist information.

XML structure

```
<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <TTL></TTL>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.
TTL	Time to live	N/A	Unsigned integer, unit second, value range: 60 to 60000 second.

ATK/Blacklist/InterfaceSwitches

This table contains blacklist interface switch information.

XML structure

```

<ATK>
  <Blacklist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Enable	Blacklist switch.	N/A	Boolean: • true • false	Default is false.

ATK/Blacklist/ZoneSwitches

This table is used to configure the blacklist for a security zone.

XML structure

```
<ATK>
  <Blacklist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable the blacklist	N/A	Boolean: true—Enables the blacklist. false—Disables the blacklist (default).

ATK/Blacklist/GlobalConfigs

This table contains blacklist global configuration information.

XML structure

```
<ATK>
  <Blacklist>
    <GlobalConfigs>
      <Enable></Enable>
      <Log></Log>
    </GlobalConfigs>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalConfigs
Table type	Single-instance table
Row name	N/A
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Global switch.	N/A	Boolean: true - false	Default is false.
Log	Log switch	N/A	Boolean: true - false	Default is false.

ATK/Whitelist/IPv4ObjItems

This table contains IPv4 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IP Name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/IPv6ObjItems

This table contains IPv6 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv6ObjItems>
```

```

    <Item>
      <ObjGrpName></ObjGrpName>
    </Item>
  </IPv6ObjItems>
</Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IPv6 Name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/InterfaceSwitches

This table is used to configure the whitelist for an interface.

XML structure

```

<ATK>
  <Whitelist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable the whitelist function	N/A	Boolean: - true - false	Default is false.

ATK/Whitelist/ZoneSwitches

This table is used to configure the whitelist for a security zone.

XML structure

```
<ATK>
  <Whitelist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
```

```

    </ZoneSwitches>
  </Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Enable	Enable or disable the whitelist	N/A	Boolean: - true - false	Default is false.

ATK/Whitelist/GlobalSwitches

This table contains whitelist global switch information.

XML structure

```

<ATK>
  <Whitelist>
    <GlobalSwitches>
      <Enable></Enable>
    </GlobalSwitches>
  </Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	GlobalSwitches

Item	Description
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the global configuration.	N/A	Boolean: - true - false	Default is false.

ATK/ClientVerify/Switches

This table contains client verification switch information.

XML structure

```

<ATK>
  <ClientVerify>
    <Switches>
      <Switch>
        <IfIndex></IfIndex>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </Switches>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	Switches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification.
VerifyMode	Verification mode	N/A	Enumeration, value range varies according to MainType. For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncate. For HTTP client verification: • 0—Shutdown. • 1—Redirection.

ATK/ClientVerify/ZoneSwitches

This table is used to configure client verification for a security zone.

XML structure

```

<ATK>
  <ClientVerify>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </ZoneSwitches>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy. • 1—DNS client verification. • 2—HTTP client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncation. For HTTP client verification: • 0—Shutdown. • 1—Redirection.

ATK/ClientVerify/IPv4ProtectHosts

This table contains IPv4 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4ProtectHosts>
      <Host>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
```



```

        <PortNumber></PortNumber>
    </Host>
</IPv4ProtectHosts>
</ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv4Address	Host address	Index	IPv4 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by verification type. For TCP proxy: 0-65535 For DNS and HTTP client verification: 1-65535	For TCP proxy, port number 0 is available which means that any hosts connected to any service port will be monitored. For DNS and HTTP client verification, port number 0 is unavailable.

ATK/ClientVerify/IPv6ProtectHosts

This table contains IPv6 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv6ProtectHosts>
      <Host>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
      </Host>
    </IPv6ProtectHosts>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv6Address	Host address	Index	IPv6 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by verification type. For TCP proxy: 0-65535 For DNS and HTTP client verification: 1-65535	Zero can be set only when TCP proxy is specified, which means detect all service ports.

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ATK

ATK/Policies

This table is used to operate ATK policies.

XML structure

```
<ATK>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
    </Policy>
  </Policies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyInterfaces

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyInterfaces>
    <Apply>
```

```

    <IfIndex></IfIndex>
    <PolicyName></PolicyName>
  </Apply>
</PolicyInterfaces>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	PolicyInterfaces
Table type	Multi-instance table
Row name	Apply
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/PolicyZoneApplies

This table contains information about the application of an attack defense policy to security zones.

XML structure

```

<ATK>
  <PolicyZoneApplies>
    <Apply>
      <PolicyName></PolicyName>
      <ZoneID></ZoneID>
    </Apply>
  </PolicyZoneApplies>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	PolicyZoneApplies

Item	Description
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
PolicyName	Attack defense policy name	N/A	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).

ATK/PolicyZones

This table contains information about the attack defense policy applied to a security zone.

XML structure

```

<ATK>
  <PolicyZones>
    <Apply>
      <ZoneID></ZoneID>
      <PolicyName></PolicyName>
    </Apply>
  </PolicyZones>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	PolicyZones
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
PolicyName	Attack defense policy name	N/A	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).

ATK/PolicyApplies

This table is used to operate ATK policy appliances on interfaces.

XML structure

```
<ATK>
  <PolicyApplies>
    <Entity>
      <PolicyName></PolicyName>
      <IfIndex></IfIndex>
    </Entity>
  </PolicyApplies>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyApplies
Table type	Multi-instance table
Row name	Entity
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IfIndex	Interface index	Index	Unsigned integer.	N/A

ATK/PolicyLocal

This table is used to operate local ATK policy appliance.

XML structure

```
<ATK>
  <PolicyLocal>
    <PolicyName></PolicyName>
  </PolicyLocal>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	PolicyLocal
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	N/A	String. Length: 1 to 31 characters.	Case insensitive

ATK/IPv4Exempts

This table contains IPv4 exemption information

XML structure

```
<ATK>
  <IPv4Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </Exempt>
  </IPv4Exempts>
</ATK>
```

```

    </Exempt>
  </IPv4Exempts>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AcINum	AcI number	N/A	Unsigned integer. Value range: 2000 to 3999	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
AcIName	AcI name	N/A	String. Length: 1 to 63 characters.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.

ATK/IPv6Exempts

This table contains IPv6 exemption information

XML structure

```

<ATK>
  <IPv6Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AcINum></AcINum>
      <AcIName></AcIName>
    </Exempt>
  </IPv6Exempts>
</ATK>

```

```

    </Exempt>
  </IPv6Exempts>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Exempts
Table type	Multi-instance table
Row name	Exempt
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
AcINum	AcI number	N/A	Unsigned integer. Value range: 2000 to 3999	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
AcIName	AcI name	N/A	String. Length: 1 to 63 characters.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.

ATK/InterfaceAttackStatistics

This table contains interface attack statistics.

XML structure

```

<ATK>
  <InterfaceAttackStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <Chassis></Chassis>
      <Slot></Slot>
    </Statistics>
  </InterfaceAttackStatistics>
</ATK>

```

```

    <CPUID></CPUID>
    <MainType></MainType>
    <SubType></SubType>
    <AtkTimes></AtkTimes>
    <DropCnt></DropCnt>
  </Statistics>
</InterfaceAttackStatistics>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Chassis	ID of the member where the interface resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the interface	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • 0—Scan. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single packet attack. • 4—IP option single packet attack. • 5—ICMP single packet attack. • 6—ICMPv6 single packet attack. • 7—IPv6 extend header attack.
SubType	Sub attack type	Index	Enumeration, value range

Column name	Column description	Column type	Data type and restrictions
			varies according to MainType. For scan: • 0—Port scan. • 1—IP sweep. • 2—Distributed IP sweep. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. For named single packet attack: • 0—IP fragment. • 1—IP impossible. • 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to

Column name	Column description	Column type	Data type and restrictions
			255. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.
AtkTimes	Attack times	N/A	Unsigned integer.
DropCnt	Dropped packet count	N/A	Unsigned integer.

ATK/ZoneAttackStatistics

This table contains attack statistics for a security zone.

XML structure

```

<ATK>
  <ZoneAttackStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MainType></MainType>
      <SubType></SubType>
      <AtkTimes></AtkTimes>
      <DropCnt></DropCnt>
    </Statistics>
  </ZoneAttackStatistics>
</ATK>

```

Table description

Item	Description
Feature name	ATK

Item	Description
Table name	ZoneAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • 0—Scan attack. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single-packet attack. • 4—IP option single-packet attack. • 5—ICMP single-packet attack. • 6—ICMPv6 single-packet attack. • 7—IPv6 extension header single-packet attack.
SubType	Attack subtype	Index	Enumeration: • For scan attacks: ◦ 0—Port scan. ◦ 1—IP sweep. ◦ 2—Distributed IP sweep. • For transport layer floods: ◦ 0—SYN flood. ◦ 1—ACK flood. ◦ 2—SYN-ACK flood. ◦ 3—RST flood. ◦ 4—FIN flood. ◦ 5—UDP flood. ◦ 6—ICMP flood. ◦ 7—ICMPv6 flood. • For application layer floods: ◦ 0—DNS flood. ◦ 1—HTTP flood. • For named single-packet attacks: ◦ 0—IP fragment attack. ◦ 1—IP impossible attack.

Column name	Column description	Column type	Data type and restrictions
			○ 2—Teardrop attack. ○ 3—Tiny fragment attack. ○ 4—IP-option-abnormal attack. ○ 5—Smurf attack. ○ 6—Traceroute attack. ○ 7—Ping-of-death attack. ○ 8—Large ICMP attack. ○ 9—Large ICMPv6 attack. ○ 10—TCP-invalid-flags attack. ○ 11—TCP-null-flag attack. ○ 12—TCP-all-flags attack. ○ 13—TCP-SYN-FIN attack. ○ 14—TCP-FIN-only attack. ○ 15—Land attack. ○ 16—WinNuke attack. ○ 17—UDP bomb attack. ○ 18—Snork attack. ○ 19—Fraggle attack. • For IP option single-packet attacks, a subtype is an IP option value in the range of 0 to 255. • For ICMP single-packet attacks, a subtype is an ICMP type value in the range of 0 to 255. • For ICMPv6 single-packet attacks, a subtype is an ICMPv6 type value in the range of 0 to 255. • For IPv6 extension header single-packet attacks, a subtype is an IPv6 extension header type value in the range of 0 to 255.
AtkTimes	Number of times that the attack occurred	N/A	Unsigned integer.
DropCnt	Number of dropped packets	N/A	Unsigned integer.

ATK/LocalAttackStatistics

This table contains local attack statistics.

XML structure

```

<ATK>
  <LocalAttackStatistics>
    <Statistics>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </Statistics>
  </LocalAttackStatistics>
</ATK>

```

```

    <MainType></MainType>
    <SubType></SubType>
    <AtkTimes></AtkTimes>
    <DropCnt></DropCnt>
  </Statistics>
</LocalAttackStatistics>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	LocalAttackStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
Maintype	Main attack type	Index	Enumeration: • 0—Scan. • 1—Transport layer flood. • 2—Application layer flood. • 3—Named single packet attack. • 4—IP option single packet attack. • 5—ICMP single packet attack. • 6—ICMPv6 single packet attack. • 7—IPv6 extend header attack.
SubType	Sub attack type	Index	Enumeration, value range varies according to MainType.

Column name	Column description	Column type	Data type and restrictions
			For scan: • 0—Port scan. • 1—IP sweep. • 2—Distributed IP sweep. For transport layer flood: • 0—SYN flood. • 1—ACK flood. • 2—SYN-ACK flood. • 3—RESET flood. • 4—FIN flood. • 5—UDP flood. • 6—ICMP flood. • 7—ICMPv6 flood. For application layer flood: • 0—DNS flood. • 1—HTTP flood. For named single packet attack: • 0—IP fragment. • 1—IP impossible. • 2—Teardrop • 3—Tiny fragment • 4—Abnormal • 5—Smurf • 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. For ICMP single packet

Column name	Column description	Column type	Data type and restrictions
			attack, SubType is the ICMP type value, range: 0 to 255. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.
AtkTimes	Attack times	N/A	Unsigned integer.
DropCnt	Dropped packet count	N/A	Unsigned integer.

ATK/Scan/Policies

This table contains scan policy information.

XML structure

```

<ATK>
  <Scan>
    <Policies>
      <Policy>
        <PolicyName></PolicyName>
        <Level></Level>
        <UserDefinedCfg>
          <PortScanEnable></PortScanEnable>
          <PortScanThreshold></PortScanThreshold>
          <IPSweepEnable></IPSweepEnable>
          <IPSweepThreshold></IPSweepThreshold>
          <Period></Period>
        </UserDefinedCfg>
        <Log></Log>
        <Drop></Drop>
        <BlockSource>
          <Enable></Enable>
          <BlockTime></BlockTime>
        </BlockSource>
      </Policy>
    </Policies>
  </Scan>

```

</ATK>

Table description

Item	Description
Feature name	ATK
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String,case-insensitive. Length: 1 to 31 characters.	N/A
Level	Scan detect level	N/A	Enumeration: • 0—Don't detect. • 1—Low sensibility. • 2—Middle sensibility. • 3—High sensibility. • 4—User defined sensibility.	UserDefinedCfg and its members are available only in scan detect level 4.
UserDefinedCfg	Custom scan detection configuration.	Data struct	Members include: • PortScanEnable • PortScanThreshold • IPSweepEnable • IPSweepThreshold • Period	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: • true. • false.	N/A
PortScanThreshold	Port scan detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if PortScanEnable is true.
IPSweepEnable	IP sweep detection switch.	N/A	Boolean: • true. • false.	N/A
IPSweepThreshold	IP sweep detection threshold.	N/A	Signed integer. Value range: 1 to	Value must be set if IPSweepEnable is

Column name	Column description	Column type	Data type and restrictions	Remarks
			1000000000 pps.	true.
Period	Detection cycle	N/A	Signed integer. Value range: 1 to 1000000000 seconds.	N/A
Log	Log switch	N/A	Boolean: • true • false	N/A
Drop	Drop packet switch	N/A	Boolean: • true • false	Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
BlockSource	Block source configs	Data struct	Members include: • Enable • BlockTime	Drop and BlockSource are mutually exclusive and only one of them can be set in a single message.
Enable	Block source switch.	N/A	Boolean: • true • false	N/A
BlockTime	Source block duration.	N/A	Unsigned integer, value range 1 to 1000 minutes.	When and only when Enable is true, this column is useful.

ATK/Flood/DefaultConfigs

This table contains flood default configurations.

XML structure

```

<ATK>
  <Flood>
    <DefaultConfigs>
      <Config>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>
        <Threshold></Threshold>

```

```

    <MonitorPort></MonitorPort>
    <NonSpecificSwitch></NonSpecificSwitch>
  </Config>
</DefaultConfigs>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	DefaultConfigs
Table type	Multi-instance table
Row name	Config
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood. 7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	N/A
Log	Log switch	N/A	Boolean: true	Default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
			false	
Drop	Drop packet switch	N/A	Boolean: - true - false	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: - true - false	Default is false.
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. For http flood, default monitored port is 80. For DNS flood, default monitored port is 53. At most specify a maximum of 32 port items.
NonSpecificSwitch	Non specific protect hosts detect switch	N/A	Boolean: - true - false	Default value is false which means only detect protect hosts.

ATK/Flood/IPv4ProtectHosts

This table contains IPv4 flood protect hosts information.

XML structure

```

<ATK>
  <Flood>
    <IPv4ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv4Address></Ipv4Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
      </Host>
    </IPv4ProtectHosts>
  </Flood>
</ATK>

```

```

        <ClientVerify></ClientVerify>
        <MonitorPort></MonitorPort>
    </Host>
</IPv4ProtectHosts>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood. 7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public

Column name	Column description	Column type	Data type and restrictions	Remarks
				vrf.
Ipv4Address	IPv4 protected host address	Index	IPv4 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/IPv6ProtectHosts

This table contains IPv6 flood protect hosts information.

XML structure

```

<ATK>
  <Flood>
    <IPv6ProtectHosts>
      <Host>
        <PolicyName></PolicyName>
        <MainType></MainType>
        <SubType></SubType>
        <VrfName></VrfName>
        <Ipv6Address></Ipv6Address>
        <Threshold></Threshold>
        <Log></Log>
        <Drop></Drop>
        <ClientVerify></ClientVerify>

```

```

        <MonitorPort></MonitorPort>
    </Host>
</IPv6ProtectHosts>
</Flood>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main flood type	Index	Enumeration: 0—Transport layer flood. 1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType. For transport layer flood: 0—SYN flood. 1—ACK flood. 2—SYN-ACK flood. 3—RESET flood. 4—FIN flood. 5—UDP flood. 6—ICMP flood. 7—ICMPv6 flood. For application layer flood: 0—DNS flood. 1—HTTP flood.	N/A
VrfName	Vrf name	Index	String. Length: 0 to 31 characters.	Case sensitive, empty represents public vrf.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 protected host address	Index	IPv6 address.	N/A
Threshold	Flood detect threshold	N/A	Signed integer, value range: 1 to 1000000 pps.	N/A
Log	Log switch	N/A	Boolean: • true • false	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: • true • false	No default value. Should be configured along with log and drop column.
MonitorPort	Monitor service port range	N/A	Port range string, port value range: 1 to 65535.	Support Application layer only for now. At most specify a maximum of 24 port items.

ATK/Flood/LearnItems

This table contains flow threshold learning information.

XML structure

```

<ATK>
  <Flood>
    <LearnItems>
      <Item>
        <PolicyName></PolicyName>
        <Status></Status>
        <TimeValue></TimeValue>
        <Mode></Mode>
        <IntervalValue></IntervalValue>
        <AutoApply></AutoApply>
        <Scope></Scope>
      </Item>
    </LearnItems>
  </Flood>

```

</ATK>

Table description

Item	Description
Feature name	ATK
Table name	LearnItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Learning switch	N/A	Boolean: - true - false	Default is false.
TimeValue	Time value	N/A	Unsigned integer, value range: 1 to 1200000 minutes.	Default is 1440 minutes.
Mode	Learning mode	N/A	Enumeration: 0—Single. 1—Cycle.	N/A
IntervalValue	Interval value for cycle mode	N/A	Unsigned integer. Value range: 1 to 1200000 minutes.	Only when the mode is cycle, this column is useful. Default is 1440 minutes.
AutoApply	Auto application switch	N/A	Boolean: - true - false	Default is false.
Scope	Deviation of study result	N/A	Unsigned integer. Value range: 0 to 4000.	Only when AutoApply is true, this column is useful. Default is 50.

ATK/Flood/FlowResults

This table contains flow threshold learning result information.

XML structure

```
<ATK>
  <Flood>
    <FlowResults>
      <Result>
        <PolicyName></PolicyName>
        <Status></Status>
        <LastResultInterval></LastResultInterval>
        <SYN></SYN>
        <ACK></ACK>
        <SYNACK></SYNACK>
        <RST></RST>
        <FIN></FIN>
        <UDP></UDP>
        <ICMP></ICMP>
        <ICMPv6></ICMPv6>
        <DNS></DNS>
        <HTTP></HTTP>
      </Result>
    </FlowResults>
  </Flood>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	FlowResults
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the attack defense policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Learning status	N/A	Enumeration: 0—Initialize. 1—Stop. 2—learning.	N/A
LastResultInterval	Time elapsed	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	since last result		Value range: 0 to 4294967295 second.	
SYN	Learning result of SYN packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ACK	Learning result of ACK packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
SYNACK	Learning result of SYNACK packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
RST	Learning result of RST packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
FIN	Learning result of FIN packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
UDP	Learning result of UDP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ICMP	Learning result of ICMP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
ICMPv6	Learning result of ICMPv6 packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
DNS	Learning result of DNS packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
HTTP	Learning result of HTTP packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A

ATK/Signature/Detects

This table contains signature detects' information.

XML structure

```

<ATK>
  <Signature>
    <Detects>
      <Detect>
        <PolicyName></PolicyName>
      </Detect>
    </Detects>
  </Signature>
</ATK>

```



```

    <MainType></MainType>
    <SubType></SubType>
    <Log></Log>
    <Drop></Drop>
    <level></level>
  </Detect>
</Detects>
</Signature>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	Detects
Table type	Multi-instance table
Row name	Detect
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Maintype	Main signature type	Index	Enumeration: 0—Named single packet attack. 1—IP option single packet attack. 2—ICMP single packet attack. 3—ICMPv6 single packet attack. 4—IPv6 extend header attack.	N/A
SubType	Sub signature type	Index	Enumeration, value range varies according to MainType. For named single packet attack: 0—IP fragment. 1—IP impossible. 2—Teardrop 3—Tiny fragment 4—Abnormal 5—Smurf	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 6—Trace route • 7—Ping of death • 8—Large ICMP • 9—Large ICMPv6 • 10—TCP invalid flags • 11—TCP null flag • 12—TCP all flags • 13—TCP SYN FIN flags • 14—TCP FIN only • 15—Land • 16—Winnuke • 17—UDP bomb • 18—Snork • 19—Fraggle For IP option single packet attack, SubType is the IP option value, range: 0 to 255. • 7—Record route option. • 68—Timestamp option. • 130—Security option. • 131—Loose source routing option. • 136—Stream identifier option. • 137—Strict source route option. • 148—Route alert option. For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255. • 8—ICMP echo request. • 0—ICMP echo reply. • 4—ICMP source quench. • 3—ICMP destination unreachable. • 5—ICMP redirect. • 11—ICMP time exceeded. • 12—ICMP parameter problem. • 13—ICMP timestamp request. • 14—ICMP timestamp	

Column name	Column description	Column type	Data type and restrictions	Remarks
			reply. 15—ICMP information request. 16—ICMP information reply. 17—ICMP address mask request. 18—ICMP address mask reply. For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255. 128—ICMPv6 echo request. 129—ICMPv6 echo reply. 130—ICMPv6 group query. 131—ICMPv6 group report. 132—ICMPv6 group reduction. 1—ICMPv6 destination unreachable. 3—ICMPv6 time exceeded. 4—ICMPv6 parameter problem. 2—ICMPv6 packet too big. For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.	
Log	Log switch	N/A	Boolean: true - false	Default is false.
Drop	Drop packet switch	N/A	Boolean: true - false	Default is false.
Level	Severity level	N/A	Enumeration: 0—Information. 1—Low. 2—Medium. 3—High.	N/A

ATK/Signature/LargeICMPLength

This table contains large ICMP and ICMPv6 signature information.

XML structure

```
<ATK>
  <Signature>
    <LargeICMPLength>
      <Policy>
        <PolicyName></PolicyName>
        <IPv4Threshold></IPv4Threshold>
        <IPv6Threshold></IPv6Threshold>
      </Policy>
    </LargeICMPLength>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LargeICMPLength
Table type	Multi-instance table
Row name	Policy
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
IPv4Threshold	ICMP packet length threshold	N/A	Unsigned integer, value range: 28 to 65534 bytes.	N/A
IPv6Threshold	ICMPv6 packet length threshold	N/A	Unsigned integer, value range: 48 to 65534 bytes.	N/A

ATK/Signature/LevelActions

This table contains signature level action information.

XML structure

```
<ATK>
  <Signature>
    <LevelActions>
      <LevelAction>
        <PolicyName></PolicyName>
        <Level></Level>
        <Log></Log>
        <Drop></Drop>
      </LevelAction>
    </LevelActions>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LevelActions
Table type	Multi-instance table
Row name	LevelAction
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of Attack Defense policy	Index	String. Length: 1 to 31 characters.	Case insensitive
Level	Severity level	Index	Enumeration: • 0—Information. • 1—Low. • 2—Medium. • 3—High.	N/A
Log	Log switch	N/A	Boolean: • true • false	Default value is true
Drop	Drop packet switch	N/A	Boolean: • true • false	The default value varies by severity level. For information level or low level, default value is false. For medium level or high level default

Column name	Column description	Column type	Data type and restrictions	Remarks
				value is true.

ATK/Signature/LogAggregate

This table contains signature log aggregation information.

XML structure

```
<ATK>
  <Signature>
    <LogAggregate>
      <Enable></Enable>
    </LogAggregate>
  </Signature>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	LogAggregate
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Log aggregate switch.	N/A	Boolean: true - false	Default is true.

ATK/Blacklist/IPv4Blacklists

This table contains IPv4 blacklist information.

XML structure

```
<ATK>
```

```

<Blacklist>
  <IPv4Blacklists>
    <Item>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <DSLitePeer></DSLitePeer>
      <AddType></AddType>
      <TTL></TTL>
      <DropCnt></DropCnt>
    </Item>
  </IPv4Blacklists>
</Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv4Address	IPv4 blacklist address	Index	IPv4 address.	N/A
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.	In DS-Lite network, this parameter refers to B4 addresses. Leave it empty in other

Column name	Column description	Column type	Data type and restrictions	Remarks
				circumstances.
AddType	Add type	N/A	Enumeration: 0—Manual add. 1—Automatic add.	N/A
TTL	Time to live	N/A	Unsigned integer, unit second.	N/A
DropCnt	Dropped packet count	N/A	Unsigned integer.	N/A

ATK/Blacklist/IPv6Blacklists

This table contains IPv6 blacklist information.

XML structure

```

<ATK>
  <Blacklist>
    <IPv6Blacklists>
      <Item>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <AddType></AddType>
        <TTL></TTL>
        <DropCnt></DropCnt>
      </Item>
    </IPv6Blacklists>
  </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
Table type	Multi-instance table
Row name	Item
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the blacklist resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the blacklist	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv6Address	IPv6 blacklist address	Index	IPv6 address.
AddType	Add type	N/A	Enumeration: • 0—Manual add. • 1—Automatic add.
TTL	Time to live	N/A	Unsigned integer, unit second.
DropCnt	Dropped packet count	N/A	Unsigned integer.

ATK/Blacklist/InterfaceSwitches

This table contains blacklist interface switch information.

XML structure

```
<ATK>
  <Blacklist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK

Item	Description
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Enable	Blacklist switch.	N/A	Boolean: true false	Default is false.

ATK/Blacklist/ZoneSwitches

This table contains the blacklist configuration for a security zone.

XML structure

```

<ATK>
  <Blacklist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
  </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
Enable	Whether the blacklist is enabled or not	N/A	Boolean: • true—Enabled. • false—Disabled (default).

ATK/Blacklist/GlobalConfigs

This table contains blacklist global configuration information.

XML structure

```
<ATK>
  <Blacklist>
    <GlobalConfigs>
      <Enable></Enable>
      <Log></Log>
    </GlobalConfigs>
  </Blacklist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	GlobalConfigs
Table type	Single-instance table
Row name	N/A
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Global switch.	N/A	Boolean: • true • false	Default is false.
Log	Log switch	N/A	Boolean: • true • false	Default is false.

ATK/Whitelist/IPv4ObjItems

This table contains IPv4 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
    <IPv4ObjItems>
      <Item>
        <ObjGrpName></ObjGrpName>
      </Item>
    </IPv4ObjItems>
  </Whitelist>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IP name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/IPv6ObjItems

This table contains IPv6 whitelist information.

XML structure

```
<ATK>
  <Whitelist>
```

```

<IPv6ObjItems>
  <Item>
    <ObjGrpName></ObjGrpName>
  </Item>
</IPv6ObjItems>
</Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ObjItems
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjGrpName	Object group IPv6 name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

ATK/Whitelist/InterfaceSwitches

This table is used to configure the whitelist for an interface.

XML structure

```

<ATK>
  <Whitelist>
    <InterfaceSwitches>
      <Switch>
        <IfIndex></IfIndex>
        <Enable></Enable>
      </Switch>
    </InterfaceSwitches>
  </Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	InterfaceSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable the whitelist function	N/A	Boolean: • true • false	N/A

ATK/Whitelist/ZoneSwitches

This table is used to configure the whitelist for a security zone.

XML structure

```
<ATK>
  <Whitelist>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <Enable></Enable>
      </Switch>
    </ZoneSwitches>
```

```

    </Whitelist>
  </ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Enable	Enable or disable the whitelist	N/A	Boolean: - true - false	N/A

ATK/Whitelist/GlobalSwitches

This table contains whitelist global switch information.

XML structure

```

<ATK>
  <Whitelist>
    <GlobalSwitches>
      <Enable></Enable>
    </GlobalSwitches>
  </Whitelist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	GlobalSwitches
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the global configuration.	N/A	Boolean: - true - false	N/A

ATK/ClientVerify/Switches

This table contains client verification switch information.

XML structure

```

<ATK>
  <ClientVerify>
    <Switches>
      <Switch>
        <IfIndex></IfIndex>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </Switches>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	Switches
Table type	Multi-instance table
Row name	Switch
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification.
VerifyMode	Verification mode	N/A	Enumeration, value range varies according to MainType. For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncate. For HTTP client verification: • 0—Shutdown. • 1—Redirection.

ATK/ClientVerify/ZoneSwitches

This table contains the client verification configuration for a security zone.

XML structure

```

<ATK>
  <ClientVerify>
    <ZoneSwitches>
      <Switch>
        <ZoneID></ZoneID>
        <VerifyType></VerifyType>
        <VerifyMode></VerifyMode>
      </Switch>
    </ZoneSwitches>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	ZoneSwitches
Table type	Multi-instance table
Row name	Switch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ZoneID	Security zone ID	Index	Unsigned integer.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy. • 1—DNS client verification. • 2—HTTP client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. For DNS client verification: • 0—Shutdown. • 1—Truncation. For HTTP client verification: • 0—Shutdown. • 1—Redirection.

ATK/ClientVerify/IPv4ProtectHosts

This table contains IPv4 client verification protect hosts information.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4ProtectHosts>
      <Host>
        <Chassis></Chassis>
        <Slot></Slot>
```

```

    <CPUID></CPUID>
    <VerifyType></VerifyType>
    <VrfIndex></VrfIndex>
    <Ipv4Address></Ipv4Address>
    <PortNumber></PortNumber>
    <AddType></AddType>
    <ReqCnt></ReqCnt>
    <AuthCnt></AuthCnt>
  </Host>
</IPv4ProtectHosts>
</ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv4ProtectHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the host resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the host	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv4Address	Host address	Index	IPv4 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by the verification type. For TCP proxy:	For TCP proxy, port number 0 is available which means that any

Column name	Column description	Column type	Data type and restrictions	Remarks
			0-65535 For DNS and HTTP client verification: 1-65535	hosts connected to any service port will be monitored. For DNS and HTTP client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: 0—Manual add. 1—Automatic add.	N/A
ReqCnt	Request count	N/A	Unsigned integer.	N/A
AuthCnt	Authenticated request count	N/A	Unsigned integer.	N/A

ATK/ClientVerify/IPv6ProtectHosts

This table contains IPv6 client verification protect hosts information.

XML structure

```

<ATK>
  <ClientVerify>
    <IPv6ProtectHosts>
      <Host>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <PortNumber></PortNumber>
        <AddType></AddType>
        <ReqCnt></ReqCnt>
        <AuthCnt></AuthCnt>
      </Host>
    </IPv6ProtectHosts>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6ProtectHosts

Item	Description
Table type	Multi-instance table
Row name	Host
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the host resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the host	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
VerifyType	Verification type	Index	Enumeration: 0—TCP proxy 1—DNS client verification. 2—HTTP client verification.	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.	N/A
Ipv6Address	Host address	Index	IPv6 address.	N/A
PortNumber	Port number	Index	Unsigned integer. The value range varies by the verification type. For TCP proxy: 0-65535 For DNS and HTTP client verification: 1-65535	For TCP proxy, port number 0 is available which means that any hosts connected to any service port will be monitored. For DNS and HTTP client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: 0—Manual add. 1—Automatic add.	N/A
ReqCnt	Request count	N/A	Unsigned integer.	N/A
AuthCnt	Authenticated request count	N/A	Unsigned integer.	N/A

ATK/ClientVerify/IPv4TrustClients

This table contains information of trust IPv4 clients verified by ClientVerify module.

XML structure

```
<ATK>
  <ClientVerify>
    <IPv4TrustClients>
      <Client>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv4Address></Ipv4Address>
        <DSLitePeer></DSLitePeer>
        <TTL></TTL>
      </Client>
    </IPv4TrustClients>
  </ClientVerify>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	IPv4TrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the client resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the client	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification.

Column name	Column description	Column type	Data type and restrictions
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv4Address	Client address	Index	IPv4 address.
DSLitePeer	DS-Lite tunnel peer address	Index	IPv6 address.
TTL	Time to live	N/A	Unsigned integer, unit second.

ATK/ClientVerify/IPv6TrustClients

This table contains information of trust IPv6 clients verified by ClientVerify module.

XML structure

```

<ATK>
  <ClientVerify>
    <IPv6TrustClients>
      <Client>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <VerifyType></VerifyType>
        <VrfIndex></VrfIndex>
        <Ipv6Address></Ipv6Address>
        <TTL></TTL>
      </Client>
    </IPv6TrustClients>
  </ClientVerify>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6TrustClients
Table type	Multi-instance table
Row name	Client
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member where the client resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the client	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.
VerifyType	Verification type	Index	Enumeration: • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification.
VrfIndex	Vrf index	Index	Unsigned integer, 0 represents public vrf.
Ipv6Address	Client address	Index	IPv6 address.
TTL	Time to live	N/A	Unsigned integer, unit second.

ATK/Specification

This table contains specification information of the current device.

XML structure

```
<ATK>
  <Specification>
    <InterfaceApply></InterfaceApply>
    <LocalApply></LocalApply>
    <ClientVerify></ClientVerify>
  </Specification>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	Specification
Table type	Single-instance table
Row name	N/A

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
InterfaceApply	Support apply a attack-defense policy to interfaces	N/A	Boolean: • True • false
LocalApply	Support apply a attack-defense policy to local host	N/A	Boolean: • True • false
ClientVerify	Support client-verify feature.	N/A	Boolean: • True • false

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AVC

AVC/MoveTrafficPolicyRule

This table contains information about the AVC's rule number information.

XML structure

```
<AVC>
  <MoveTrafficPolicyRule>
    <Move>
      <RuleNumber></RuleNumber>
      <NextRuleNumber></NextRuleNumber>
    </Move>
  </MoveTrafficPolicyRule>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	MoveTrafficPolicyRule
Table type	Multi-instance table
Row name	Move
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
NextRuleNumber	Next rule's rule number	N/A	Unsigned integer: 0 to 4294967295	Single value

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XML structure	6
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AVC

AVC/TrafficPolicyRules

This table contains information about the AVC's rule information.

XML structure

```
<AVC>
  <TrafficPolicyRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Action>
        <ProfileName></ProfileName>
      </Action>
      <ModelId></ModelId>
    </Rule>
  </TrafficPolicyRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
ParentRuleNumber	Parent Rule's rule number	N/A	Unsigned integer: 1 to 4294967295	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name cannot be same with its siblings. Mandatory
Enable	Set this value to true to disable the rule	N/A	Boolean: true : this rule is enabled false: this rule is disabled	Optional
TimeRange	Time Range Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional, Single value
ProfileName	TrafficPolify profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional
ModelId	Model rule number	N/A	Unsigned integer: 1 to 4294967295	Optional

AVC/RuleOptions

This table contains some multiple information about the AVC's rule option.

XML structure

```

<AVC>
  <RuleOptions>
    <Option>
      <RuleNumber></RuleNumber>
      <OptionType></OptionType>
      <OptionVal></OptionVal>
    </Option>
  </RuleOptions>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	RuleOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: 1. SourceZones 2. DestZones 3. SourceAddressSets 4. DestAddressSets 5. Users 6. UserGroups 7. Applications 8. AppGroups 9. Services 10. Dscp	N/A
OptionValue	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63 characters (OptionType is 7 or 8) Length: 1 to 31 characters (OptionType is from 1 to 6, and 9.) Length: 1 to 100 characters (OptionType is 10)	N/A

AVC/TrafficPolicyProfile

This table contains information about the AVC traffic policy's Control profiles.

XML structure

```

<AVC>
  <TrafficPolicyProfiles>
    <Profile>
      <ProfileNumber></ProfileNumber>
      <ProfileName></ProfileName>
      <ReferenceMode></ReferenceMode>
      <IpAverageEnable></IpAverageEnable>
      <TotalMaxKbps></TotalMaxKbps>
      <TotalGuaranteedKbps></TotalGuaranteedKbps>
      <TotalGuaranteedKbpsPerIP></TotalGuaranteedKbpsPerIP>
      <TotalGuaranteedKbpsPerUser></TotalGuaranteedKbpsPerUser>
      <TotalMaxKbpsPerIP></TotalMaxKbpsPerIP>
      <TotalMaxKbpsPerUser></TotalMaxKbpsPerUser>
      <DnGuaranteedKbpsPerIP></DnGuaranteedKbpsPerIP>
      <UpGuaranteedKbpsPerIP></UpGuaranteedKbpsPerIP>
      <DnGuaranteedKbpsPerUser></DnGuaranteedKbpsPerUser>
    
```

```

    <UpGuaranteedKbpsPerUser></UpGuaranteedKbpsPerUser>
    <DnMaxKbps></DnMaxKbps>
    <UpMaxKbps></UpMaxKbps>
    <DnGuaranteedKbps></DnGuaranteedKbps>
    <UpGuaranteedKbps></UpGuaranteedKbps>
    <DnMaxKbpsPerIP></DnMaxKbpsPerIP>
    <UpMaxKbpsPerIP></UpMaxKbpsPerIP>
    <DnMaxKbpsPerUser></DnMaxKbpsPerUser>
    <UpMaxKbpsPerUser></UpMaxKbpsPerUser>
    <Priority></Priority>
    <RemarkDSCP></RemarkDSCP>
    <MaxConnNum></MaxConnNum>
    <MaxConnNumPerIP></MaxConnNumPerIP>
    <MaxConnNumPerUser></MaxConnNumPerUser>
    <MaxConnRate></MaxConnRate>
    <MaxConnRatePerIP></MaxConnRatePerIP>
    <MaxConnRatePerUser></MaxConnRatePerUser>
  </Profile>
</TrafficPolicyProfiles>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileNumber	Profile number	Index	Unsigned integer: 1 to 4294967295.	Rule option is the match order.
ProfileName	Profile Name, cannot be same with other profiles	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReferenceMode	Rule shared mode	N/A	Unsigned integer: 0 per-rule 1 rule-shared	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAverageEnable	Ip average enable	N/A	Boolean: true : ip average is enabled false: ip average is disabled	N/A
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpGuaranteedKbpsPerUser	Up guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: 8 to 100,000,000	Optional
UpGuaranteedKbps	Upstream guaranteed Kbps	N/A	Unsigned integer: 8 to 100,000,000	Optional
DnMaxKbps	Downstream Max Kbps	N/A	Unsigned integer: 8 to 100,000,000	Optional
UpMaxKbps	Upstream Max Kbps	N/A	Unsigned integer: 8 to 100,000,000	Optional
DnMaxKbpsPerIP	Downstream Max Kbps per iP	N/A	Unsigned integer: 8 to 100,000,000	Optional
UpMaxKbpsPerIP	Upstream Max Kbps Per IP	N/A	Unsigned integer: 8 to 100,000,000	Optional. Per-IP and Per-User are exclusive.
DnMaxKbpsPerUser	Downstream Max Kbps per User	N/A	Unsigned integer: 8 to 100,000,000	Optional
UpMaxKbpsPerUser	Upstream Max	N/A	Unsigned integer:	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
erUser	Kbps PerUser		8 to 100,000,000	
Priority	Stream Priority leve	N/A	Unsigned integer: 1 to 7	When the outbound bandwidth is limited, the priority of the stream is higher, the stream is prior to pass the interface.
RemarkDSCP	Dscp value	N/A	Unsigned integer: 0 to 63	Optional
MaxConnNum	Max up connections	N/A	Unsigned integer: 1 to 12,000,000	Optional
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: 1 to 12,000,000	Optional Per-IP and Per-User are exclusive
MaxConnNumPerUser	Max up connections per user	N/A	Unsigned integer: 1 to 12,000,000	Optional
MaxConnRate	Max up connections rate	N/A	Unsigned integer: 1 to 12,000,000 times per second	Optional
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: 1 to 12,000,000 times per second	Optional Per-IP and Per-User are exclusive
MaxConnRatePerUser	Max up connections rate per user	N/A	Unsigned integer: 1 to 12,000,000 times per second	Optional

AVC/ RuleJsonOptions

This table contains information about the AVC's rule options information.

XML structure

```

<AVC>
  <RuleJsonOptions>
    </OptionJson>
    <RuleJsonNumber></RuleJsonNumber>
    <OptionJsonType></OptionJsonType>
    <OptionJsonVal></OptionJsonVal>
  </OptionJson>
</RuleJsonOptions>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	RuleJsonOptions
Table type	Multi-instance table
Row name	OptionJson
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleJsonNumber	Rule number	Index	Unsigned integer: 1 to 4294967295.	Rule number is the match order.
OptionJsonType	Type of the configuration	Index	Enumeration: 1. SourceZones 2. DestZones 3. SourceAddressSets 4. DestAddressSets 5. Users 6. UserGroups 7. Applications 8. AppGroups 9. Services 10. Dscp	N/A
OptionJsonValue	Json values of the special type configurations	Index	String, case-insensitive. Length: 1 to 65535.	N/A

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AVC

AVC/TrafficParentRules

This table contains information about parent traffic rules.

XML structure

```
<AVC>
  <TrafficParentRules>
    <Rule>
      <Position></Position>
      <RuleNumber></RuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <TotalCount ></TotalCount>
      <FirstSonRuleNum></FirstSonRuleNum>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
    </Rule>
  </TrafficParentRules>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficParentRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Position	Record the Number	Index	Unsigned integer: 0 to 200	N/A
RuleNumber	Rule number	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 10240 Content: JSON array	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.
TotalCount	Total number of rules	N/A	Unsigned integer: 1 to 4294967295	N/A
FirstSonRuleNum	Return the number of the first child rule	N/A	Unsigned integer: 1 to 4294967295	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: true : this rule is enabled false: this rule is disabled	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

AVC/TrafficPolicyChildRules

This table contains information about child traffic rules.

XML structure

```

<AVC>
  <TrafficPolicyChildRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <FirstSonRuleNum></FirstSonRuleNum>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
      <OptionContent></OptionContent>
    </Rule>
  </TrafficPolicyChildRules>

```

</AVC>

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyChildRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	N/A
ParentRuleNumber	Number of the parent rule	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FirstSonRuleNum	Return the number of the first child rule	N/A	Unsigned integer: 1 to 4294967295	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: true : this rule is enabled false: this rule is disabled	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 10240 Content: JSON array	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.

AVC/AvcRuleOptions

This table contains match criterion types.

XML structure

```
<AVC>
  <AvcRuleOptions>
    <AvcOption>
      <AvcRuleNumber></AvcRuleNumber>
      <AvcSeqNum></AvcSeqNum>
      <AvcOptionType></AvcOptionType>
      <AvcOptionVal></AvcOptionVal>
    </AvcOption>
  </AvcRuleOptions>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	AvcRuleOptions
Table type	Multi-instance table
Row name	AvcOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AvcRuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	N/A
AvcSeqNum	Sequence numbers for values of a match criterion	Index	Unsigned integer: 1 to 4294967295	N/A
AvcOptionType	Match criterion type	N/A	Enumeration: 1. SourceZones 2. DestZones 3. SourceAddressSets 4. DestAddressSets 5. Users 6. UserGroups 7. Applications	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			8. AppGroups 9. Services 10. Dscp	
AvcOptionVal	Match criterion value	N/A	String, case-insensitive. Length: 1 to 32000 characters Content: JSON array Such as: [Optionval1,optionval2,...]	A JSON array contains strings of 1 to 64 characters.

AVC/TrafficPolicyQuery

This table contains information about each match criterion type.

XML structure

```

<AVC>
  <TrafficPolicyQuery>
    <RuleQuery>
      <UserID></UserID>
      <Position></Position>
      <RuleNameFilter></RuleNameFilter>
      <EnableFilter></EnableFilter>
      <ProfileNameFilter></ProfileNameFilter>
      <TimeRangeFilter></TimeRangeFilter>
      <SrcZoneFilter></SrcZoneFilter>
      <DestZoneFilter></DestZoneFilter>
      <SrcAddrSetFilter></SrcAddrSetFilter>
      <DestAddrSetFilter></DestAddrSetFilter>
      <UserFilter></UserFilter>
      <UserGroupFilter></UserGroupFilter>
      <ApplicationFilter></ApplicationFilter>
      <AppGroupFilter></AppGroupFilter>
      <ServiceFilter></ServiceFilter>
      <DscpFilter></DscpFilter>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleNumber></RuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <TotalCount></TotalCount>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
      <IsExistSonFlag></IsExistSonFlag>
    </RuleQuery>
  </TrafficPolicyQuery>

```

</AVC>

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyQuery
Table type	Multi-instance table
Row name	RuleQuery
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	Record the user ID	Index	Unsigned integer: 1 to 65535	N/A
Position	Record the last query position	Index	Unsigned integer: 0 to 200	N/A
RuleNameFilter	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableFilter	Set this value to true to enable the rule	N/A	Unsigned integer: 0 invalid 1 disable 2 enable	N/A
TimeRangeFilter	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileNameFilter	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcZoneFilter	Source zone name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestZoneFilter	Destination zone name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SrcAddrSetFilter	Source address object name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestAddrSetFilter	Destination address object name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
UserFilter	Username	N/A	String, case-insensitive. Length: 1 to 55 characters.	N/A
UserGroupFilter	User group name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ApplicationFilter	Application name	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
er			Length: 1 to 63 characters.	
AppGroupFilter	Application group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceFilter	Service name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DscpFilter	DSCP value	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ParentRuleNumber	Parent rule number	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleNumber	Child rule number	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 10240 Content: JSON array	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match criterion. A JSON object contains a maximum of 64 characters.
TotalCount	Total number of rules	N/A	Unsigned integer: 1 to 4294967295	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: true : this rule is enabled false: this rule is disabled	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsExistSonFlag	Set this value to son traffic id to sign if this traffic has sons	N/A	Unsigned integer: 1 to 4294967295	N/A

AVC/TrafficQueParentRule

This table contains information about the parent rule for a child rule.

XML structure

```
<AVC>
  <TrafficQueueParentRule>
    <QueRule>
      <RuleNumber></RuleNumber>
      <PRuleNumber></PRuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
    </QueRule>
  </TrafficQueueParentRule>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficQueueParentRule
Table type	Multi-instance table
Row name	QueRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Child rule number	Index	Unsigned integer: 1 to 4294967295	N/A
PRuleNumber	Parent rule number	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 10240 Content: JSON array	This column stores all match criteria of a parent traffic rule in the JSON array format. A JSON array is made up of JSON objects. A JSON object describes information about one match criterion type by using optionType and optionVal. The optionVal is a set of values for the match

Column name	Column description	Column type	Data type and restrictions	Remarks
				criterion. A JSON object contains a maximum of 64 characters.
Enable	Set this value to true to enable the rule	N/A	Boolean: true : this rule is enabled false: this rule is disabled	N/A
TimeRange	Time range name	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProfileName	Traffic profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

AVC/TrafficPolicyRules

This table contains information about the AVC's rule information.

XML structure

```

<AVC>
  <TrafficPolicyRules>
    <Rule>
      <RuleNumber></RuleNumber>
      <ParentRuleNumber></ParentRuleNumber>
      <RuleName></RuleName>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <Action>
        <ProfileName></ProfileName>
      </Action>
      <ModelId></ModelId>
    </Rule>
  </TrafficPolicyRules>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
ParentRuleNumber	Parent Rule's rule number	N/A	Unsigned integer: 1 to 4294967295	N/A
RuleName	name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name cannot be same with its siblings. Mandatory
Enable	Set this value to true to disable the rule	N/A	Boolean: true : this rule is disabled false: this rule is enabled	N/A
TimeRange	Time Range Name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProfileName	TrafficPolify profile name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ModelId	Model rule number	N/A	Unsigned integer: 1 to 4294967295	N/A

AVC/RuleOptions

This table contains some multiple information about the AVC's rule option.

XML structure

```

<AVC>
  <RuleOptions>
    <Option>
      <RuleNumber></RuleNumber>
      <OptionType></OptionType>
      <OptionVal></OptionVal>
    </Option>
  </RuleOptions>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	RuleOptions
Table type	Multi-instance table
Row name	Option

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	Rule number	Index	Unsigned integer: 1 to 4294967295	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: 1. SourceZones 2. DestZones 3. SourceAddressSets 4. DestAddressSets 5. Users 6. UserGroups 7. Applications 8. AppGroups 9. Services 10. Dscp	N/A
OptionValue	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63 characters (OptionType is 7 or 8) Length: 1 to 31 characters (OptionType is from 1 to 6, and 9.) Length: 1 to 100 characters (OptionType is 10)	N/A

AVC/TrafficPolicyProfile

This table contains information about the AVC traffic policy's Control profiles.

XML structure

```
<AVC>
  <TrafficPolicyProfiles>
    <Profile>
      <ProfileNumber></ProfileNumber>
      <ProfileName></ProfileName>
      <ReferenceMode></ReferenceMode>
      <IpAverageEnable></IpAverageEnable>
      <TotalMaxKbps></TotalMaxKbps>
      <TotalGuaranteedKbps></TotalGuaranteedKbps>
      <TotalGuaranteedKbpsPerIP></TotalGuaranteedKbpsPerIP>
      <TotalGuaranteedKbpsPerUser></TotalGuaranteedKbpsPerUser>
```

```

<TotalMaxKbpsPerIP></TotalMaxKbpsPerIP>
<TotalMaxKbpsPerUser></TotalMaxKbpsPerUser>
<DnGuaranteedKbpsPerIP></DnGuaranteedKbpsPerIP>
<UpGuaranteedKbpsPerIP></UpGuaranteedKbpsPerIP>
<DnGuaranteedKbpsPerUser></DnGuaranteedKbpsPerUser>
<UpGuaranteedKbpsPerUser></UpGuaranteedKbpsPerUser>
<DnMaxKbps></DnMaxKbps>
<UpMaxKbps></UpMaxKbps>
<DnGuaranteedKbps></DnGuaranteedKbps>
<UpGuaranteedKbps></UpGuaranteedKbps>
<DnMaxKbpsPerIP></DnMaxKbpsPerIP>
<UpMaxKbpsPerIP></UpMaxKbpsPerIP>
<DnMaxKbpsPerUser></DnMaxKbpsPerUser>
<UpMaxKbpsPerUser></UpMaxKbpsPerUser>
<Priority></Priority>
<RemarkDSCP></RemarkDSCP>
<MaxConnNum></MaxConnNum>
<MaxConnNumPerIP></MaxConnNumPerIP>
<MaxConnNumPerUser></MaxConnNumPerUser>
<MaxConnRate></MaxConnRate>
<MaxConnRatePerIP></MaxConnRatePerIP>
<MaxConnRatePerUser></MaxConnRatePerUser>
</Profile>
</TrafficPolicyProfiles>
</AVC>

```

Table description

Item	Description
Feature name	AVC
Table name	TrafficPolicyProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileNumber	Profile number	Index	Unsigned integer: 1 to 4294967295.	Rule option is the match order.
ProfileName	Profile Name, cannot be same with other profiles	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReferenceMode	Rule shared mode	N/A	Unsigned integer: 0 per-rule 1 rule-shared	N/A
IpAverageEnable	Ip average enable	N/A	Boolean: true : ip average is enabled false: ip average is disabled	N/A
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpGuaranteedKbpsPerUser	Up guaranteed kbps per user	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnGuaranteedKbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpGuaranteedKbps	Upstream guaranteed kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnMaxKbps	Downstream Max kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpMaxKbps	Upstream Max kbps	N/A	Unsigned integer: 8 to 100,000,000	N/A
DnMaxKbpsPerIP	Downstream Max kbps per iP	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpMaxKbpsPerIP	Upstream Max kbps Per IP	N/A	Unsigned integer: 8 to 100,000,000	Per-IP and Per-User are exclusive.

Column name	Column description	Column type	Data type and restrictions	Remarks
DnMaxKbpsPerUser	Downstream Max kbps per User	N/A	Unsigned integer: 8 to 100,000,000	N/A
UpMaxKbpsPerUser	Upstream Max kbps PerUser	N/A	Unsigned integer: 8 to 100,000,000	N/A
Priority	Stream Priority leve	N/A	Unsigned integer: 1 to 7	When the outbound bandwidth is limited, the priority of the stream is higher, the stream is prior to pass the interface.
RemarkDSCP	Dscp value	N/A	Unsigned integer: 0 to 63	N/A
MaxConnNum	Max up connections	N/A	Unsigned integer: 1 to 12,000,000	N/A
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: 1 to 12,000,000	Per-IP and Per-User are exclusive
MaxConnNumPerUser	Max up connections per user	N/A	Unsigned integer: 1 to 12,000,000	N/A
MaxConnRate	Max up connections rate	N/A	Unsigned integer: 1 to 12,000,000 times per second	N/A
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: 1 to 12,000,000 times per second	Per-IP and Per-User are exclusive
MaxConnRatePerUser	Max up connections rate per user	N/A	Unsigned integer: 1 to 12,000,000 times per second	N/A

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- Bct 1
 - Bct/ControllerTeams1
 - XML structure1
 - Table description1
 - Columns1
 - Bct / Controllers1
 - XML structure2
 - Table description2
 - Columns2

Bct

Bct/ControllerTeams

This table is used to configure Bct for a device and show Bct's state.

XML structure

```
<Bct>
  <ControllerTeams>
    <Team>
      <TeamID></TeamID>
      <Name></Name>
    </Team>
  </ControllerTeams>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	ControllerTeams
Table type	Multi-instance table
Row name	Team
Restrictions	Device support blade controller team
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TeamID	ControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
Name	ControllerTeam name	Index	String. Length: 1 to 31 characters.	N/A

Bct / Controllers

This table contains controller information.

XML structure

```
<Bct>
  <Controllers>
    <Controller>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <TeamID></TeamID>
    </Controller>
  </Controllers>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	Location node to blade controller team
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Information of device node	Data structure	N/A	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
TeamID	Blade controller team ID	N/A	Unsigned integer. Value range: 2 to 256.	N/A

Contents

- Bct 1
 - Bct/ControllerTeams1
 - XML structure1
 - Table description1
 - Columns1
 - Bct/Controllers1
 - XML structure2
 - Table description2
 - Columns2

Bct

Bct/ControllerTeams

This table is used to configure Bct for a device and show Bct's state.

XML structure

```
<Bct>
  <ControllerTeams>
    <Team>
      <TeamID></TeamID>
      <Name></Name>
    </Team>
  </ControllerTeams>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	ControllerTeams
Table type	Multi-instance table
Row name	Team
Restrictions	All ControllerTeams' information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TeamID	ControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
Name	ControllerTeam name	Index	String. Length: 1 to 31 characters.	N/A

Bct/Controllers

This table contains controller information.

XML structure

```
<Bct>
  <Controllers>
    <Controller>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <BelongID></BelongID>
      <NodeType></NodeType>
    </Controller>
  </Controllers>
</Bct>
```

Table description

Item	Description
Feature name	Bct
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	Controllers' information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Information of device node	Data structure	N/A	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
BelongID	Owning blade controller team ID	N/A	Unsigned integer. Value range: 1 to 256.	N/A
NodeType	Node type	N/A	Enumeration. 1: Master 2: Standby 3: Absent.	N/A

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Columns	1
BFD/Interfaces	2
XML structure	2
Table description	2
Columns	2

BFD

BFD/Base

This table contains global BFD information.

XML structure

```
<BFD>
  <Base>
    <MultihopMinTransmitInterval></MultihopMinTransmitInterval>
    <MultihopMinReceiveInterval></MultihopMinReceiveInterval>
    <MultihopDetectMultiplier></MultihopDetectMultiplier>
  </Base>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MultihopMinTransmitInterval	Minimum interval for transmitting multihop BFD control packet.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopMinReceiveInterval	Minimum interval for receiving multihop BFD control packet.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopDetectMultiplier	Multihop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.

BFD/Interfaces

This table contains BFD interface information.

XML structure

```
<BFD>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
    </Interface>
  </Interfaces>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	none
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTransmitInterval	Minimum interval for transmitting single-hop BFD control.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving single-hop BFD control.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Single-hop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.

Contents

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BFD/Base	1
XML structure	1
Table description	1
Columns	1
BFD/Interfaces	2
XML structure	2
Table description	2
Columns	2

BFD

BFD/Base

This table contains global BFD information.

XML structure

```
<BFD>
  </Base>
    <MultihopMinTransmitInterval></MultihopMinTransmitInterval>
    <MultihopMinReceiveInterval></MultihopMinReceiveInterval>
    <MultihopDetectMultiplier></MultihopDetectMultiplier>
  </Base>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MultihopMinTransmitInterval	Minimum interval for transmitting multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopMinReceiveInterval	Minimum interval for receiving multihop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MultihopDetectMultiplier	Multihop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.

BFD/Interfaces

This table contains BFD interface information.

XML structure

```
<BFD>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <MinTransmitInterval></MinTransmitInterval>
      <MinReceiveInterval></MinReceiveInterval>
      <DetectMultiplier></DetectMultiplier>
      <MinEchoReceiveInterval></MinEchoReceiveInterval>
    </Interface>
  </Interfaces>
</BFD>
```

Table description

Item	Description
Feature name	BFD
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	none

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTransmitInterval	Minimum interval for transmitting single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
MinReceiveInterval	Minimum interval for receiving single-hop BFD control packets.	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.
DetectMultiplier	Single-hop detection time multiplier.	N/A	Unsigned integer.	The value range for this argument varies by device model.
MinEchoReceiveInterval	Minimum interval for receiving BFD echo packets	N/A	Unsigned integer. Unit: millisecond.	The value range for this argument varies by device model.

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BGP/Operations	1
XML structure	1
Responded XML structure	1
Table description	1
Columns	1
Responded columns	2

BGP

BGP/Operations

This table is a description of BGP protocol actions.

XML structure

```
<BGP>
  <Operations>
    <Operation>
      <OperationType></OperationType>
      <Name></Name>
    </Operation>
  </Operations>
</BGP>
```

Responded XML structure

N/A

Table description

Item	Description
Feature name	BGP
Table name	Operations
Table type	Multi-instance table
Row name	Operation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationType	Operation type	Index	Enumeration 1 – Send update message immediately	The operation type specify the operation which BGP protocol should perform.
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.

Responded columns

N/A

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Table description	14
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XML structure	16
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Columns	18
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XML structure	19
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BGP

BGP/Instances

This table contains BGP instance information.

XML structure

```
<BGP>
  <Instances>
    <Instance>
      <Name></Name>
      <ASNumber></ASNumber>
      <NSR></NSR>
      <SendDelayTime></SendDelayTime>
      <SendDelayPrefix></SendDelayPrefix>
      <SendStartupTime></SendStartupTime>
      <StartupPolicyMed></StartupPolicyMed>
    </Instance>
  </Instances>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process. When execute get bulk operation, you can only get the data of the specified BGP

Column name	Column description	Column type	Data type and restrictions	Remarks
				instance.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
NSR	Nonstop Routing		Enumeration. 0—Disable.(default) 1—Enable.	N/A
SendDelayTime	Send delay time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker never send the update message.
SendDelayPrefix	Send delay prefix list		String. Length: 1 to 63 characters.	N/A
SendStartupTime	Send startup time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker always send the update message with the startup policy.
StartupPolicy Med	Satrtup policy MED		Unsigned integer. Value range: 0 to 4294967295	N/A

BGP/VRFs

This table contains BGP VRF information.

XML structure

```

<BGP>
  <VRFs>
    <VRF>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
    </VRF>
  </VRFs>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRFName	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RouterId	BGP Router Id		IPv4 address string	N/A
Timer	Keepalive and Holdtime	Data Structure	Include: - KeepAlive - HoldTime	N/A
KeepAlive	Keepalive Interval in Seconds		Unsigned integer. Value range: 0 to 21845	N/A
HoldTime	Holdtime in Seconds		Unsigned integer. Value range: 0 to 65535	N/A

BGP/CfgSessionGroups

This table contains configure information of BGP session group.

XML structure

```
<BGP>
  <CfgSessionGroups>
    <CfgSessionGroup>
      <Name></Name>
      <VRF></VRF>
      <GroupName></GroupName>
```

```

<Type></Type>
<ASNumber></ASNumber>
<ConnectInterface></ConnectInterface>
<UpdateInterval></UpdateInterval>
<PasswordType></PasswordType>
<Password></Password>
<BfdType></BfdType>
<Ignore></Ignore>
</CfgSessionGroup>
</CfgSessionGroups>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	CfgSessionGroups
Table type	Multi-instance table
Row name	CfgSessionGroup
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
Type	Internal or External		Enumeration. 0—Internal.(default) 1—External.	N/A
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	Bfd type		Enumeration. 0—default type 1—single-hop 2—multi-hop	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations
Ignore	Disable session establishment to the peers		Enumeration. 0—Disable.(default) 1—Enable.	N/A

BGP/CfgSessions

This table contains configure information of BGP session.

XML structure

```
<BGP>
  <CfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <Ignore></Ignore>
      <EbgpMaxHop></EbgpMaxHop>
    </CfgSession>
  </CfgSessions>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	CfgSessions
Table type	Multi-instance table
Row name	CfgSession
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group Name		String. Length: 1 to 47 characters.	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	N/A
BfdType	Bfd type		Enumeration. 0—default type 1—single-hop 2—multi-hop	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations

Column name	Column description	Column type	Data type and restrictions	Remarks
EbgpMaxHop	EBGP multihop		Unsigned integer. Value range: 1 to 255	N/A
Ignore	Disable session establishment to the peers		Enumeration. 0—Disable.(default) 1—Enable.	N/A

BGP/Family

This table contains address family identifier information of BGP.

XML structure

```

<BGP>
  <Famillys>
    <Family>
      <Name></Name>
      <VRF></VRF>
      <Type></Type>
      <Preference>
        <Ebgp></Ebgp>
        <Ibgp></Ibgp>
        <Local></Local>
      </Preference>
      <Balance>
        <MaxBalance></MaxBalance>
      </Balance>
      <PolicyVpnTarget></PolicyVpnTarget>
      <ReflectBtwClients></ReflectBtwClients>
      <ReflectorClusterID></ReflectorClusterID>
      <RrFilter></RrFilter>
      <DefaultRtImport></DefaultRtImport>
      <DomainDistinguisher></DomainDistinguisher>
    </Family>
  </Famillys>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Family
Table type	Multi-instance table

Row name	Family
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Type	Address Family Identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
Preference	Preference for BGP Routes	Data Structure	Include: • Ebgp • Ibgp • Local	N/A
Ebgp	Preference for eBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Ibgp	Preference for iBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Local	Preference for Local Routes		Unsigned integer. Value range: 1 to 255	N/A
Balance	number of BGP ECMP routes for load balancing	Data Structure	Include: • MaxBalance	N/A
MaxBalance	maximum number of BGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 255	N/A
PolicyVpnTarget	Filter VPN routes with VPN-Target attribute		Enumeration: • 0—Disable. • 1—Enable.	N/A
ReflectBtwClients	Route reflection between clients		Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReflectorClusterID	cluster ID of the route reflector		String,IPv4 address string or Unsigned integer. Value range: 1 to 4294967295	N/A
RrFilter	Specify reflector route Extended community filter policy		Unsigned integer. Value range: 1 to 199	Only IBGP routes whose extended community attribute matches the specified extended community list are reflected.
DefaultRouteImport	Import default route		Enumeration: 0—Disable 1—Enable.	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 0 to 31 characters. The format is AS<1-4294967295>:routerID <X.X.X.X>.	Example: 100:13.14.23.22

BGP/Networks

This table contains BGP network information.

XML structure

```

<BGP>
  <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
    </Network>
  </Networks>
</BGP>

```

Table description

Item	Description
Feature name	BGP

Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Network	Index	Enumeration: • 1—IPv4 Unicast • 2—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast	N/A
IpAddress	Address of Network	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of Network address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6 this is 0 to 128.

BGP/Aggregates

This table contains BGP aggregate information.

XML structure

```

<BGP>
  <Aggregates>
    <Aggregate>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <DetailSuppressed></DetailSuppressed>
    
```



```

    </Aggregate>
  </Aggregates>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Aggregates
Table type	Multi-instance table
Row name	Aggregate
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: 1—IPv4 Unicast 2—IPv4 Multicast 5—IPv6 Unicast 6—IPv6 Multicast	N/A
IpAddress	Address of aggregate	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of aggregate address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6 this is 0 to 128.
DetailSuppressed	Detail Suppressed		Enumeration. 0—Disable.(default) 1—Enable.	N/A

BGP/NeighborGroups

This table contains BGP neighbor group information.

XML structure

```
<BGP>
  <NeighborGroups>
    <NeighborGroup>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <GroupName></GroupName>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </RouteLimit>
    </NeighborGroup>
  </NeighborGroups>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	NeighborGroups
Table type	Multi-instance table
Row name	NeighborGroup
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Import Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable.
NextHopLocal	Specify local address as the next hop of routes advertised		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable

Column name	Column description	Column type	Data type and restrictions	Remarks
	to the peers			
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. 0—Disable. 1—Enable.	
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: - Number - Percentage - AlertOnly - Discard - Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. 0—Disable. (default) 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. 0—Disable. (default) 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A

BGP/Neighbors

This table contains BGP neighbor information.

XML structure

```

<BGP>
  <Neighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
    </Neighbor>
  </Neighbors>
</BGP>

```

```

<IpAddress></IpAddress>
<Mask></Mask>
<RtPolicyImport></RtPolicyImport>
<RtPolicyExport></RtPolicyExport>
<AllowAsLoop></AllowAsLoop>
<ReflectClient></ReflectClient>
<NexthopInvariable></NexthopInvariable>
<NexthopLocal></NexthopLocal>
<RouterMacLocal></RouterMacLocal>
<RouteLimit>
  <Number></Number>
  <Percentage></Percentage>
  <AlertOnly></AlertOnly>
  <Discard></Discard>
  <Reconnect></Reconnect>
</RouteLimit>
</Neighbor>
</Neighbors>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Neighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: 1—IPv4 Unicast. 2—IPv4 Multicast. 3—MDT 4—VPNv4 5—IPv6 Unicast 6—IPv6 Multicast. 7—VPNv6 8—L2VPN 9—L2VPN EVPN 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
RtPolicyImport	Import Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. 0—Disable. 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. 0—Disable. 1—Enable.	Next-hop-local conflict with next-hop-invariable
NextHopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. 0—Disable. 1—Enable.	Next-hop-local conflict with next-hop-invariable
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. 0—Disable. 1—Enable.	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: - Number - Percentage - AlertOnly - Discard - Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. 0—Disable. (default) 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. 0—Disable. (default) 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A

BGP/Redistributes

This table contains BGP redistribute information.

XML structure

```
<BGP>
  <Redistributes>
```

```

<Redist>
  <Name></Name>
  <VRF></VRF>
  <Family></Family>
  <Protocol></Protocol>
  <RedistName></RedistName>
  <AllowDirect></AllowDirect>
  <Med></Med>
  <RoutePolicy></RoutePolicy>
</Redist>
</Redistributes>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 5—IPv6 Unicast • 6—IPv6 Multicast.	N/A
Protocol	Protocol name	Index	Enumeration: • 1—Direct. • 2—Static. • 3—RIP • 4—OSPF • 5—ISIS	N/A
RedistName	Redistributed process name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static.
AllowDirect	Include direct routes.		Enumeration: • 0—Disable. • 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters	N/A

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BGP

BGP/Instances

This table contains BGP instance information.

XML structure

```
<BGP>
  <Instances>
    <Instance>
      <Name></Name>
      <ASNumber></ASNumber>
      <NSR></NSR>
      <SendDelayTime></SendDelayTime>
      <SendDelayPrefix></SendDelayPrefix>
      <SendStartupTime></SendStartupTime>
      <StartupPolicyMed></StartupPolicyMed>
    </Instance>
  </Instances>
</BGP>
```

Table description

Item	Description
Feature name	BGP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process. When execute get bulk operation, you can only get the data of the specified BGP instance.

Column name	Column description	Column type	Data type and restrictions	Remarks
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
NSR	Nonstop Routing		Enumeration. 0—Disable. 1—Enable.	N/A
SendDelayTime	Send delay time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker never send the update message.
SendDelayPrefix	Send delay prefix list		String. Length: 1 to 63 characters.	N/A
SendStartupTime	Send startup time in seconds		Unsigned integer. Value range: 0 to 3600	The value 0 indicates that the BGP speaker always send the update message with the startup policy.
StartupPolicy Med	Satrtup policy MED		Unsigned integer. Value range: 0 to 4294967295	N/A

BGP/VRFs

This table contains BGP VRF information.

XML structure

```

<BGP>
  <VRFs>
    <VRF>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
      <Timer>
        <KeepAlive></KeepAlive>
        <HoldTime></HoldTime>
      </Timer>
    </VRF>
  </VRFs>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
RouterId	BGP Router Id		String,IPv4 address string	N/A
Timer	Keepalive and Holdtime	Data Structure	Include: - KeepAlive - HoldTime	N/A
KeepAlive	Keepalive Interval in Seconds		Unsigned integer. Value range: 0 to 21845	N/A
HoldTime	Holdtime in Seconds		Unsigned integer. Value range: 0, or 3 to 65535	N/A

BGP/CfgSessionGroups

This table contains configure information of BGP session group.

XML structure

```
<BGP>
  <CfgSessionGroups>
    <CfgSessionGroup>
      <Name></Name>
      <VRF></VRF>
      <GroupName></GroupName>
      <Type></Type>
```

```

    <ASNumber></ASNumber>
    <ConnectInterface></ConnectInterface>
    <UpdateInterval></UpdateInterval>
    <PasswordType></PasswordType>
    <Password></Password>
    <BfdType></BfdType>
    <Ignore></Ignore>
  </CfgSessionGroup>
</CfgSessionGroups>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	CfgSessionGroups
Table type	Multi-instance table
Row name	CfgSessionGroup
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
Type	Internal or External		Enumeration. 0—Internal. 1—External.	N/A
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	The password can only be displayed in cipher text.
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	
BfdType	Bfd type		Enumeration. 0—default type 1—single-hop 2—multi-hop	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations
Ignore	Disable session establishment to the peers		Enumeration. 0—Disable. 1—Enable.	N/A

BGP/CfgSessions

This table contains configure information of BGP session.

XML structure

```
<BGP>
  <CfgSessions>
    <CfgSession>
      <Name></Name>
      <VRF></VRF>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <ASNumber></ASNumber>
      <GroupName></GroupName>
      <ConnectInterface></ConnectInterface>
      <UpdateInterval></UpdateInterval>
      <PasswordType></PasswordType>
      <Password></Password>
      <BfdType></BfdType>
      <EbgpMaxHop></EbgpMaxHop>
      <Ignore></Ignore>
    </CfgSession>
  </CfgSessions>
</BGP>e
```

Table description

Item	Description
Feature name	BGP
Table name	CfgSessions
Table type	Multi-instance table
Row name	CfgSession
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
SessAF	Address family of session	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
GroupName	Group Name		String. Length: 1 to 47 characters.	N/A
ConnectInterface	Connect Interface		String. Length: 1 to 47 characters.	N/A
UpdateInterval	Route Update Interval		Unsigned integer. Value range: 0 to 600	N/A
PasswordType	Password type.		Enumeration. 1—Ciphertext. 2—Plaintext.	The password can only be displayed in cipher text.
Password	Password.		String. Length: 1 to 80 characters for MD5 plaintext password. 33 to 137 characters for MD5 ciphertext password.	
BfdType	Bfd type		Enumeration. 0—default type 1—single-hop 2—multi-hop	The default type indicate that actual bfd type (single-hop or multi-hop) depend on different situations

Column name	Column description	Column type	Data type and restrictions	Remarks
EbgpMaxHop	EBGP multihop		Unsigned integer. Value range: 1 to 255	N/A
Ignore	Disable session establishment to the peers		Enumeration. 0—Disable 1—Enable.	N/A

BGP/Sessions

This table contains state information of BGP session.

XML structure

```

<BGP>
  <Sessions>
    <Session>
      <Name></Name>
      <VRF></VRF>
      <AF></AF>
      <IpAddress></IpAddress>
      <ASNumber></ASNumber>
      <State></State>
    </Session>
  </Sessions>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
AF	Address family of session	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
IpAddress	Address of session	Index	String, IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
ASNumber	Autonomous System number		Unsigned integer. Value range: 1 to 4294967295	N/A
State	Session state		Enumeration: • 0—Idle • 1—Connect • 2—Active • 3—Opensent • 4—Openconfirm • 5—Established	Established state means that the BGP session is established, but whether the address families are negotiated is unknown.

BGP/Family

This table contains address family identifier information of BGP.

XML structure

```

<BGP>
  <Famillys>
    <Family>
      <Name></Name>
      <VRF></VRF>
      <Type></Type>
      <Preference>
        <Ebgp></Ebgp>
        <Ibgp></Ibgp>
        <Local></Local>
      </Preference>
      <Balance>

```

```

    <MaxBalance></MaxBalance>
  </Balance>
  <PolicyVpnTarget></PolicyVpnTarget>
  <ReflectBtwClients></ReflectBtwClients>
  <ReflectorClusterID></ReflectorClusterID>
  <RrFilter></RrFilter>
  <DefaultRtImport></DefaultRtImport>
  <DomainDistinguisher></DomainDistinguisher>
</Family>
</Famillys>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Family
Table type	Multi-instance table
Row name	Family
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Type	Address Family Identifier	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
Preference	Preference for BGP Routes	Data Structure	Include: • Ebgp • Ibgp • Local	N/A
Ebgp	Preference for eBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Ibgp	Preference for iBGP Routes		Unsigned integer. Value range: 1 to 255	N/A
Local	Preference for Local Routes		Unsigned integer. Value range: 1 to 255	N/A
Balance	number of BGP ECMP routes for load balancing	Data Structure	Include: • MaxBalance	N/A
MaxBalance	maximum number of BGP ECMP routes for load balancing		Unsigned integer. Value range: 1 to 255	N/A
PolicyVpnTarget	Filter VPN routes with VPN-Target attribute		Enumeration: • 0—Disable. • 1—Enable.	N/A
ReflectBtwClients	Route reflection between clients		Enumeration: • 0—Disable. • 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReflectorClusterID	cluster ID of the route reflector		String,IPv4 address string or Unsigned integer. Value range: 1 to 4294967295	N/A
RrFilter	Specify reflector route Extended community filter policy		Unsigned integer. Value range: 1 to 199	Only IBGP routes whose extended community attribute matches the specified extended community list are reflected.
DefaultRouteImport	Import default route		Enumeration: 0—Disable 1—Enable.	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 0 to 31 characters. The format is AS<1-4294967295>:routerID <X.X.X.X>.	Example: 100:13.14.23.22

BGP/Networks

This table contains BGP network information.

XML structure

```

<BGP>
  <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
    </Network>
  </Networks>
</BGP>

```

Table description

Item	Description
Feature name	BGP

Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: • 1—IPv4 Unicast • 2—IPv4 Multicast • 5—IPv6 Unicast • 6—IPv6 Multicast	N/A
IpAddress	Address of Network	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of Network address	Index	Unsigned integer. Value range: 0 to 128	For IPv4,this is 0 to 32.For IPv6, this is 0 to 128.

BGP/Aggregates

This table contains BGP aggregate information.

XML structure

```

<BGP>
  <Aggregates>
    <Aggregate>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <DetailSuppressed></DetailSuppressed>
    </Aggregate>
  </Aggregates>
</BGP>

```

```

    </Aggregates>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Aggregates
Table type	Multi-instance table
Row name	Aggregate
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Aggregate	Index	Enumeration: 1—IPv4 Unicast 2—IPv4 Multicast 5—IPv6 Unicast 6—IPv6 Multicast	N/A
IpAddress	Address of aggregate	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of aggregate address	Index	Unsigned integer. Value range: 0 to 128,or 255	For IPv4,this is 0 to 32.For IPv6, this is 0 to 128.
DetailSuppressed	Detail Suppressed		Enumeration. 0—Disable. 1—Enable.	N/A

BGP/NeighborGroups

This table contains BGP neighbor group information.

XML structure

```

<BGP>
  <NeighborGroups>

```



```

<NeighborGroup>
  <Name></Name>
  <VRF></VRF>
  <Family></Family>
  <GroupName></GroupName>
  <RtPolicyImport></RtPolicyImport>
  <RtPolicyExport></RtPolicyExport>
  <AllowAsLoop></AllowAsLoop>
  <ReflectClient></ReflectClient>
  <NexthopInvariable></NexthopInvariable>
  <NexthopLocal></NexthopLocal>
  <RouterMacLocal></RouterMacLocal>
  <RouteLimit>
    <Number></Number>
    <Percentage></Percentage>
    <AlertOnly></AlertOnly>
    <Discard></Discard>
    <Reconnect></Reconnect>
  </RouteLimit>
</NeighborGroup>
</NeighborGroups>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	NeighborGroups
Table type	Multi-instance table
Row name	NeighborGroup
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of NeighborGroup	Index	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—L2VPN EVPN • 10—Link-State	N/A
GroupName	Group Name	Index	String. Length: 1 to 47 characters.	N/A
RtPolicyImport	Import Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for NeighborGroup		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. • 0—Disable. • 1—Enable.	N/A
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable
NextHopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. • 0—Disable. • 1—Enable.	Next-hop-local conflict with next-hop-invariable.
RouterMacLocal	Specify local MAC as the		Enumeration. • 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	router MAC of routes advertised to and received from the peers		1—Enable.	
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: - Number - Percentage - AlertOnly - Discard - Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. 0—Disable. 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. 0—Disable. 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A

BGP/Neighbors

This table contains BGP neighbor information.

XML structure

```

<BGP>
  <Neighbors>
    <Neighbor>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <SessAF></SessAF>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RtPolicyImport></RtPolicyImport>
      <RtPolicyExport></RtPolicyExport>
    </Neighbor>
  </Neighbors>
</BGP>

```

```

    <AllowAsLoop></AllowAsLoop>
    <ReflectClient></ReflectClient>
    <NextHopInvariable></NextHopInvariable>
    <NextHopLocal></NextHopLocal>
    <RouterMacLocal></RouterMacLocal>
    <RouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
  </Neighbor>
</Neighbors>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Neighbors
Table type	Multi-instance table
Row name	Neighbor
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier of Neighbor	Index	Enumeration: 1—IPv4 Unicast. 2—IPv4 Multicast. 3—MDT 4—VPNv4 5—IPv6 Unicast 6—IPv6 Multicast. 7—VPNv6 8—L2VPN 9—L2VPN EVPN 10—Link-State	N/A
SessAF	Address family of session	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	Address of session	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
Mask	Mask of session address	Index	Unsigned integer. Value range: 0 to 128,or 255	For non-dynamic peers, this is 255.For IPv4 dynamic peers,this is 0 to 32.For IPv6 dynamic peers, this is 0 to 128.
RtPolicyImport	Import Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
RtPolicyExport	Export Route-Policy for Neighbor		String. Length: 1 to 63 characters.	N/A
AllowAsLoop	allow a local AS number to exist in the AS_PATH attribute of routes		Unsigned integer. Value range: 1 to 10	N/A
ReflectClient	Configure the device as a route reflector and specify a peer or peer group as a client		Enumeration. 0—Disable. 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. 0—Disable. 1—Enable.	N/A
NextHopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. 0—Disable. 1—Enable.	Next-hop-local conflict with next-hop-invariable.
RouterMacLocal	Specify local MAC as the router MAC of routes advertised to and received from the peers		Enumeration. 0—Disable. 1—Enable.	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: - Number - Percentage - AlertOnly - Discard - Reconnect	N/A
Number	Number of prefixes		Unsigned integer. Value range: 1 to 4294967295	N/A
Percentage	Percentage value to trigger a warning message		Unsigned integer. Value range: 1 to 100. Default is 75	N/A
AlertOnly	Generate a log message when the route limit is exceeded		Enumeration. 0—Disable. 1—Enable.	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. 0—Disable. 1—Enable.	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A

BGP/Redistributes

This table contains BGP redistribute information.

XML structure

```
<BGP>
  <Redistributes>
```

```

<Redist>
  <Name></Name>
  <VRF></VRF>
  <Family></Family>
  <Protocol></Protocol>
  <RedistName></RedistName>
  <AllowDirect></AllowDirect>
  <Med></Med>
  <RoutePolicy></RoutePolicy>
</Redist>
</Redistributes>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
Family	Address Family Identifier	Index	Enumeration: 1—IPv4 Unicast. 2—IPv4 Multicast. 5—IPv6 Unicast 6—IPv6 Multicast.	N/A
Protocol	Protocol name	Index	Enumeration: 1—Direct. 2—Static. 3—RIP 4—OSPF 5—ISIS	N/A
RedistName	Redistributed process name	Index	String. Length: 0 to 31 characters.	It must be empty when the Protocol column is Direct, Static.
AllowDirect	Include direct routes.		Enumeration: 0—Disable. 1—Enable.	N/A
Med	Value of the MED.		Unsigned integer. Value range: 0 to 4294967295	N/A
RoutePolicy	Name of the routing policy.		String. Length: 1 to 63 characters.	N/A

BGP/SessionCounts

This table contains session statistics.

XML structure

```
<BGP>
  <SessionCounts>
    <SessionCount>
      <Name></Name>
      <VRF></VRF>
```



```

    <State></State>
    <Count></Count>
  </SessionCount>
</SessionCounts>
</BGP>

```

Table description

Item	Description
Feature name	BGP
Table name	SessionCounts
Table type	Multi-instance table
Row name	SessionCount
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.
State	Session state	Index	Enumeration: • 0—Idle • 1—Connect • 2—Active • 3—Opensent • 4—Openconfirm • 5—Established	Established state means that the BGP session is established, but whether the address families are negotiated is unknown.
Count	Total number of sessions		Unsigned integer. Value range: 0 to 4294967295	N/A

Contents

BGP event stream	1
bgp-operations-to-controller event	1
XML structure for event subscription	1
XML structure for event report	1
bgp-report-route-to-controller event	2
XML structure for event subscription	2
XML structure for event report	3

BGP event stream

BGP stream description.

bgp-operations-to-controller event

This event is used to notice to controller the operation event of BGP protocol.

XML structure for event subscription

```
<bgp-operations-to-controller>
</bgp-operations-to-controller>

Example:
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp-stream</stream>
    <filter type="subtree">
      <bgp-operations-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
        </bgp-operations-to-controller>
      </filter>
    </create-subscription>
  </rpc>
```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-operations-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-operations-to-controller>
  <operation>
    <operationType></operationType>
    <Name></Name>
  </operation>
</bgp-operations-to-controller>

Example:
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <bgp-operations-to-controller xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
    <operation>
      <operationType>1</operationType>
```

```

        <Name></Name>
    </Operation>
</bgp-operations-to-controller>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
OperationType	Operation type	Enumeration 1 – Notice controller smooth start 2 – Notice controller smooth end 3 – Notice controller the lipc disconnect 4 – Notice controller the lipc connect successfully	The operation type specifies the operation that BGP protocol should perform.
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.

bgp-report-route-to-controller event

This event is used to report BGP route to controller.

XML structure for event subscription

```

<bgp-report-route-to-controller>
</bgp-report-route-to-controller>
Example:
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>bgp-stream</stream>
    <filter type="subtree">
      <bgp-report-route-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
        </bgp-report-route-to-controller>
      </filter>
    </create-subscription>
  </rpc>

```

Table description

Item	Description
Event stream name	BGP stream
Event name	bgp-report-route-to-controller
Event namespace	http://www.h3c.com/netconf/event:1.0/BGP:1.0
Support for extended query	No

XML structure for event report

```
<bgp-report-route-to-controller>
  <ReportRoute>
    <Name></Name>
    <VRF></VRF>
    <OperationType></OperationType>
    <RouteType></RouteType>
    <RouteKey></RouteKey>
    <RouteSegment></RouteSegment>
    <RouteAttr></RouteAttr>
  </ReportRoute>
</bgp-report-route-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <bgp-report-route-to-controller
xmlns="http://www.h3c.com/netconf/event:1.0/BGP:1.0">
    <ReportRoute>
      <Name></Name>
      <VRF></VRF>
      <OperationType>1</OperationType>
      <RouteType>9</RouteType>
      <RouteKey></RouteKey>
      <RouteSegment>ACcCJQAAAEAAAPoAAAAAAAAAAAAAAAAAAwAAwpo3rjIEQCag+</RouteSegment>
      <RouteAttr>AgAGAgEAAADI</RouteAttr>
      <RouteAttr>AwAEYgAIRA==</RouteAttr>
      <RouteAttr>CAAEAAEA/w==</RouteAttr>
    </ReportRoute>
  </bgp-report-route-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
Name	Instance name	String. Length: 0 to 31 characters.	An empty string indicates the default BGP process.
VRF	VRF name	String. Length: 0 to 31 characters.	An empty string indicates the public network.
OperationType	Operation type	Enumeration 1 – Add 2 – Delete	The operation type specifies the operation that BGP protocol should perform.
RouteType	Type of route	Enumeration: • 1—IPv4 Unicast. • 2—IPv4 Multicast. • 3—MDT • 4—VPNv4 • 5—IPv6 Unicast • 6—IPv6 Multicast. • 7—VPNv6 • 8—L2VPN • 9—EVPN	
RouteKey	Key of route	Binary. Length: 0 to 128 characters.	An empty string indicates there is no key of the route.
RouteSegment	Route information	Binary. Length: 1 to 4096 characters.	
RouteAttr	Attribute of route	Binary. Length: 1 to 4096 characters.	

Contents

Bridge	1
Bridge/Base	1
XML structure	1
Table description	1
Columns	1
Bridge/Instances	1
XML structure	2
Table description	2
Columns	2

Bridge

Bridge/Base

This table contains global bridge information.

XML structure

```
<Bridge>
  <Base>
    <TunnelSkip></TunnelSkip>
  </Base>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSkip	Skip the tunnel encapsulation fields during packet parsing	N/A	Boolean: true—Enabled. false—Disabled.	N/A

Bridge/Instances

This table contains information about individual bridge instances. There are four types of bridge instances. In a forward-type bridge instance, two member interfaces are required. In other types of bridge instances, only one member interface is required.

XML structure

```
<Bridge>
  <Instances>
    <Instance>
      <BridgeID></BridgeID>
      <Mode></Mode>
      <IfIndex1></IfIndex1>
      <IfIndex2></IfIndex2>
      <Bypass></Bypass>
    </Instance>
  </Instances>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports the interface only in un-shared mode.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeID	Bridge ID	Index	Unsigned integer. Value range: 0-128.	The value 0 means to create a new bridge instance.
Mode	Mode of the bridge instance.	N/A	Unsigned integer. Value range:1 to 4.	The mode of bridge instance: 1: inter-vlan 2: reflect 3: blackhole 4: forward
IfIndex1	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS

Column name	Column description	Column type	Data type and restrictions	Remarks
				interfaces.
IfIndex2	Interface index	N/A	Unsigned integer.	I Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
Bypass	Status of the security service processing bypass feature.	N/A	Boolean: true—Enabled. false—Disabled.	N/A

Contents

Bridge	1
Bridge/Base	1
XML structure	1
Table description	1
Columns	1
Bridge/Instances	1
XML structure	2
Table description	2
Columns	2
Bridge/Specification	3
XML structure	3
Table description	3
Columns	3

Bridge

Bridge/Base

This table contains global bridge information.

XML structure

```
<Bridge>
  <Base>
    <TunnelSkip></TunnelSkip>
  </Base>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelSkip	Skip the tunnel encapsulation fields during packet parsing	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

Bridge/Instances

This table contains information about individual bridge instances. There are four types of bridge instances. In a forward-type bridge instance, two member interfaces are required. In other types of bridge instances, only one member interface is required.

XML structure

```
<Bridge>
  <instances>
    <Instance>
      <BridgeID></BridgeID>
      <Mode></Mode>
      <IfIndex1></IfIndex1>
      <IfIndex2></IfIndex2>
      <Bypass></Bypass>
    </Instance>
  </Instances>
</Bridge>
```

Table description

Item	Description
Feature name	Bridge
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports the interface only in un-shared mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeID	Bridge ID	Index	Unsigned integer. Value range: 0-128.	The value 0 means to create a new bridge instance.
Mode	Mode of the bridge instance.	N/A	Unsigned integer. Value range:1 to 4.	The mode of bridge instance: 1: inter-vlan 2: reflect 3: blackhole 4: forward
IfIndex1	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
IfIndex2	Interface index	N/A	Unsigned integer.	Some versions support interface

Column name	Column description	Column type	Data type and restrictions	Remarks
				name. For relevant information, see the XSD document of your product. Applicable to only Ethernet and POS interfaces.
Bypass	Status of the security service processing bypass feature.	N/A	Boolean: true—Enabled. false—Disabled.	N/A

Bridge/Specification

This table contains bridge specification information of the current device.

XML structure

```

<Bridge>
  <Specification>
    <SupportInline></SupportInline>
  </Specification>
</Bridge>

```

Table description

Item	Description
Feature name	Bridge
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportInline	Support for the inline-forward configurations.	N/A	Boolean: true. false.

Contents

BYOD	1
BYOD/DhcpOption55Rules	1
XML structure	1
Table description	1
Columns	1
BYOD/UserAgentRules	1
XML structure	2
Table description	2
Columns	2
BYOD/MacRules	2
XML structure	2
Table description	3
Columns	3
BYOD/AuthorizationInfos	3
XML structure	3
Table description	4
Columns	4

BYOD

BYOD/DhcpOption55Rules

BYOD DHCP Option 55 rule table for endpoint identification.

XML structure

```
<BYOD>
  <DhcpOption55Rules>
    <DhcpOption55Rule>
      <DhcpOption55Value></DhcpOption55Value>
      <DeviceType></DeviceType>
    </DhcpOption55Rule>
  </DhcpOption55Rules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	DhcpOption55Rules
Table type	Multi-instance table
Row name	DhcpOption55Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
DhcpOption55Value	DHCP Option 55 value.	Index	String. Length: 1 to 255 characters.
DeviceType	Device type.	N/A	String. Length: 1 to 127 characters.

BYOD/UserAgentRules

BYOD HTTP user agent rule table for endpoint identification.

XML structure

```
<BYOD>
  <UserAgentRules>
    <UserAgentRule>
      <UserAgentValue></UserAgentValue>
      <DeviceType></DeviceType>
    </UserAgentRule>
  </UserAgentRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	UserAgentRules
Table type	Multi-instance table
Row name	UserAgentRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
UserAgentValue	HTTP user agent value.	Index	String. Length: 1 to 255 characters.
DeviceType	Device type.	N/A	String. Length: 1 to 127 characters.

BYOD/MacRules

BYOD MAC address rule table for endpoint identification.

XML structure

```
<BYOD>
  <MacRules>
    <MacRule>
      <MacAddr></MacAddr>
      <MacMask></MacMask>
      <DeviceType></DeviceType>
    </MacRule>
  </MacRules>
</BYOD>
```

```

    </MacRule>
  </MacRules>
</BYOD>

```

Table description

Item	Description
Feature name	BYOD
Table name	MacRules
Table type	Multi-instance table
Row name	MacRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	MAC address.	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	For example, 00-0c-af-e3-5d-c0.
MacMask	MAC address mask.	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	The significant bits must be consecutive Fs. For example, ff-ff-ff-00-00-00.
DeviceType	Device type.	N/A	String. Length: 1 to 127 characters.	N/A

BYOD/AuthorizationInfos

BYOD authorization information table.

XML structure

```

<BYOD>
  <AuthorizationInfos>
    <AuthorizationInfo>
      <UserGroupName></UserGroupName>
      <DeviceType></DeviceType>
      <AuthorizationData>
        <AcNumber></AcNumber>
      </AuthorizationData>
    </AuthorizationInfo>
  </AuthorizationInfos>
</BYOD>

```

```

    <CallbackNumber></CallbackNumber>
    <FTPHomeDir></FTPHomeDir>
    <IdleTimeout></IdleTimeout>
    <PrimaryDNSServer></PrimaryDNSServer>
    <PrimaryDNSIPv6Server></PrimaryDNSIPv6Server>
    <SecondaryDNSServer></SecondaryDNSServer>
    <SecondaryDNSIPv6Server></SecondaryDNSIPv6Server>
    <URL></URL>
    <UserProfile></UserProfile>
    <VLANID></VLANID>
    <VRF></VRF>
    <IpPool></IpPool>
    <Ipv6Pool></Ipv6Pool>
  </AuthorizationData>
  <AuthorizationIPv6PrefixInfo>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
  </AuthorizationIPv6PrefixInfo>
</AuthorizationInfo>
</AuthorizationInfos>
</BYOD>

```

Table description

Item	Description
Feature name	BYOD
Table name	AuthorizationInfos
Table type	Multi-instance table
Row name	AuthorizationInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String. Length: 1 to 32 characters.	N/A
DeviceType	Device type.	Index	String. Length: 1 to 127 characters.	N/A
Authorization Data	Authorization information.	Data structure	Members include: - AcINumber. - CallbackNumber. - FTPHomeDir. - IdleTimeout.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- PrimaryDNSServer. - SecondaryDNSServer. - URL. - UserProfile. - VLANID. - VRF. - IpPool. - Ipv6Pool.	
AclNumber	ACL number.	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number.	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP working directory.	N/A	String. Length: 1 to 255 characters.	By default, FTP, SFTP, and SCP users have the root directory of the NAS set as the working directory. However, the users do not have permission to access the root directory. The root directory varies by device model.
IdleTimeout	Idle timeout timer.	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	
SecondaryDNSServer	Secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
URL	URL information.	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	User profile name.	N/A	String. Length: 1 to 32 characters.	The name can contain digits, letters, and underscores (_), but the name can't start with a digit.
VLANID	ID of the authorization VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the authorization VPN instance.	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Available IP pool name.	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Pool	Available IPv6 pool name.	N/A	String. Length: 1 to 63 characters.	N/A
AuthorizationIpv6PrefixInfo	Available IPv6 prefix.	Data structure	Members include: - Ipv6Address. - Ipv6PrefixLength.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is effective only when the Ipv6PrefixLength column is set.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	This column is effective only when the Ipv6Address column is set.

Contents

BYOD	1
BYOD/DhcpOption55Rules	1
XML structure	1
Table description	1
Columns	1
BYOD/UserAgentRules	2
XML structure	2
Table description	2
Columns	2
BYOD/MacRules	2
XML structure	3
Table description	3
Columns	3
BYOD/AuthorizationInfos	4
XML structure	4
Table description	4
Columns	5

BYOD

BYOD/DhcpOption55Rules

BYOD DHCP Option 55 rule table for endpoint identification.

XML structure

```
<BYOD>
  <DhcpOption55Rules>
    <DhcpOption55Rule>
      <DhcpOption55Value></DhcpOption55Value>
      <DeviceType></DeviceType>
      <RuleClass></RuleClass>
    </DhcpOption55Rule>
  </DhcpOption55Rules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	DhcpOption55Rules
Table type	Multi-instance table
Row name	DhcpOption55Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
DhcpOption55Value	DHCP Option 55 value.	Index	String. Length: 1 to 255 characters.
DeviceType	Device type.	N/A	String. Length: 0 to 127 characters.
RuleClass	Rule class.	N/A	Boolean: - True. - False.

BYOD/UserAgentRules

BYOD HTTP user agent rule table for endpoint identification.

XML structure

```
< BYOD>
  <UserAgentRules>
    <UserAgentRule>
      <UserAgentValue></UserAgentValue>
      <DeviceType></DeviceType>
      <RuleClass></RuleClass>
    </UserAgentRule>
  </UserAgentRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	UserAgentRules
Table type	Multi-instance table
Row name	UserAgentRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
UserAgentValue	HTTP user agent value.	Index	String. Length: 1 to 255 characters.
DeviceType	Device type.	N/A	String. Length: 1 to 127 characters.
RuleClass	Rule class.	N/A	Boolean: • True. • False.

BYOD/MacRules

BYOD MAC address rule table for endpoint identification.

XML structure

```
< BYOD>
  <MacRules>
    <MacRule>
      <MacAddr></MacAddr>
      <MacMask></MacMask>
      <DeviceType></DeviceType>
      <RuleClass></RuleClass>
    </MacRule>
  </MacRules>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	MacRules
Table type	Multi-instance table
Row name	MacRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	MAC address.	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	For example, 00-0c-af-e3-5d-c0.
MacMask	MAC address mask.	Index	String, six groups of two hexadecimal digits, hyphen-separated. Length: 1 to 17 characters.	The significant bits must be consecutive Fs. For example, ff-ff-ff-00-00-00.
DeviceType	Device type.	N/A	String. Length: 1 to 127 characters.	N/A
RuleClass	Rule class.	N/A	Boolean: • True. • False.	N/A

BYOD/AuthorizationInfos

BYOD authorization information table.

XML structure

```
<BYOD>
  <AuthorizationInfos>
    <AuthorizationInfo>
      <UserGroupName></UserGroupName>
      <DeviceType></DeviceType>
      <AuthorizationData>
        <AcNumber></AcNumber>
        <CallbackNumber></CallbackNumber>
        <FTPHomeDir></FTPHomeDir>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIPv6Server></PrimaryDNSIPv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIPv6Server></SecondaryDNSIPv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
      </AuthorizationData>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
    </AuthorizationInfo>
  </AuthorizationInfos>
</BYOD>
```

Table description

Item	Description
Feature name	BYOD
Table name	AuthorizationInfos
Table type	Multi-instance table
Row name	AuthorizationInfo

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String. Length: 1 to 32 characters.	N/A
DeviceType	Device type.	Index	String. Length: 1 to 127 characters.	N/A
Authorization Data	Authorization information.	Data structure	Members include: • AclNumber. • CallbackNumber. • FTPHomeDir. • IdleTimeout. • PrimaryDNSServer. • SecondaryDNSServer. • URL. • UserProfile. • VLANID. • VRF. • IpPool. • Ipv6Pool.	N/A
AclNumber	ACL number.	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number.	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP working directory.	N/A	String. Value range: 1 to 255 characters.	By default, FTP, SFTP, and SCP users have the root directory of the NAS set as the working directory. However, the users do not have permission to access the root directory. The root directory varies by device model.
IdleTimeout	Idle timeout timer.	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNSServer	Secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SecondaryDN SIPv6Server	Secondary DNS IPv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
\URL	URL information.	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	User profile name.	N/A	String. Length: 1 to 32 characters.	The name can contain digits, letters, and underscores (_), but the name can't start with a digit.
VLANID	ID of the authorization VLAN.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the authorization VPN instance.	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Available IP pool name.	N/A	String. Length: 1 to 31 characters.	N/A
IPv6Pool	Available IPv6 pool name.	N/A	String. Length: 1 to 63 characters.	N/A
AuthorizationI pV6PrefixInfo	Available IPv6 prefix.	Data structure	Members include: - IPv6Address. - IPv6PrefixLength.	N/A
IPv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is effective only when the IPv6PrefixLength column is set.
IPv6PrefixLen gth	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	This column is effective only when the IPv6Address column is set.

Revision Record

Date	Revision Version	Change Description	Author
2014-04-22	V1.00	Initial	dongjun04220

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CAR

CAR/CarLists

This table contains information about committed-access-rate list.

XML structure

```
<CAR>
  <CarLists>
    <List>
      <CarlID></CarlID>
      <Mac></Mac>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <DestIPRange>
        <DestIPStart></DestIPStart>
        <DestIPEnd></DestIPEnd>
      </DestIPRange>
      <SrcIPRange>
        <SrcIPStart></SrcIPStart>
        <SrcIPEnd></SrcIPEnd>
      </SrcIPRange>
      <DestIPSubnet>
        <DestSubnetIP></DestSubnetIP>
        <DestMaskLength></DestMaskLength>
      </DestIPSubnet>
      <SrcIPSubnet>
        <SrcSubnetIP></SrcSubnetIP>
        <SrcMaskLength></SrcMaskLength>
      </SrcIPSubnet>
      <SrcIPObjGroup></SrcIPObjGroup>
      <DestIPObjGroup></DestIPObjGroup>
      <Mode></Mode>
      <Trange></Trange>
    </List>
  </CarLists>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarLists
Table type	Multi-instance table
Row name	List
Restrictions	Only one match column can be configured once.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CarID	CAR list number	Index	Unsigned integer. Value range: 1 to 199.	N/A
Mac	Match the MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 Dscp for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 Exp for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 IPPrecedence for a rule
DestIPRange	Match destination IP by range.	Data structure	Members include: DestIPStart DestIPEnd	The two members must both be specified.
DestIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
DestIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. DestIPEnd must be bigger than DestIPStart .
SrcIPRange	Match source IP by range.	Data structure	Members include: SrcIPStart SrcIPEnd	The two members must both be specified.
SrcIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. SrcIPEnd must be bigger than SrcIPStart .

DestIPSubnet	Match destination IP by subnet.	Data structure	Members include: • DestSubnetIP • DestMaskLength	The two members must both be specified.
DestSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DestMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPSubnet	Match source IP by subnet.	Data structure	Members include: • SrcSubnetIP • SrcMaskLength	The two members must both be specified.
SrcSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
SrcMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPObjGroup	Match source IP by objgroup.	N/A	String case insensitive. Length: 1 to 31 characters.	The object group name can't contain '?'. The character '\r\n' in object group name can't be treated as escape character.
DestIPObjGroup	Match destination IP by objgroup.	N/A	String case insensitive. Length: 1 to 31	The object group name can't contain '?'. The character '\r\n' in object group name can't be treated as escape character.
Mode	Match Mode.	N/A	Enumeration: • 1—PerAddress. • 2—SharedBandwidth.	It can be specified when SrcIPSubnet or DestIPSubnet or SrcIPRange or DestIPRange is specified. When the Mode column is 1, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment doesn't share the remaining bandwidth. When the Mode column is 2, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment shares the remaining bandwidth.
Trange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 32 characters.	The time range name cannot be all and the '?' should not be used. The character '\r\n' in time range name can't be

				treated as escape character.
--	--	--	--	------------------------------

CAR/Policies

This table contains information about committed-access-rate policy.

XML structure

```

<CAR>
  <CarPolicies>
    <Policy>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
    </Policy>
  </CarPolicies>
</CAR>

```

Table description

Item	Description
Feature name	CAR
Table name	CarPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
Type	Match type	Index	Enumeration : 1—IPv4Acl 2—IPv6Acl 3—CarI 4—Any	N/A
Value	Match type value	Index	Unsigned integer.	When Type is 1 , the value is 2000~5999. When Type is 2 , the value is 2000~3999. When Type is 3 , the value is 1~199. When Type is 4 , this column only can be configured 0.
CIR	Committed information rate	N/A	Unsigned integer.	Required.
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	If CBS or PIR is not configured, EBS cannot be configured
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType GreenActionValue	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Action type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass 3—remark-precedence-pass 4—remark-mpls-exp-pass 5—remark-dot1p-pass 6—remark-atm-clp-pass 7—remark-fr-de-pass 8—remark-local-prec-pass	The default GreenActionType is pass. When GreenActionType is 1 , send the packet. When GreenActionType is 2 , remark DSCP value of the packet and send it. When GreenActionType is 3 , remark IP precedence of the packet and send it. When GreenActionType is 4 , remark EXP of the

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—discard • 11—remark-dscp-continue • 12—remark-precedence-continue • 13—remark-mpls-exp-continue • 14—remark-dot1p-continue • 15—remark-atm-clp-continue. • 16—remark-fr-de-continue. • 17—remark-local-prec-continue. • 19—continue.	MPLS packet and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType is 6, remark CLP bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, drop the packet. When GreenActionType is 10, remark local precedence of the packet and send it. When GreenActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy. When GreenActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When GreenActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When GreenActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When GreenActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When GreenActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy. When GreenActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When GreenActionType is 19, continue to process the packet using the next CAR policy.

Column name	Column description	Column type	Data type and restrictions	Remarks
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When GreenActionType is 1, 10 or 19, GreenActionValue is invalid. When GreenActionType is 6, 7, 15, 16, GreenActionValue is 0~1. When GreenActionType is 3, 4, 5, 8, 12, 13, 14, 17, GreenActionValue is 0~7. When GreenActionType is 2, 11, GreenActionValue is 0~63.
YellowAction	Specify behavior for Yellow packets	Data structure	Members include: YellowActionType YellowActionValue	YellowActionValue is required when GreenActionType is not 1, 10 or 19.
YellowActionType	Action type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass 3—remark-precedence-pass 4—remark-mpls-exp-pass 5—remark-dot1p-pass 6—remark-atm-clp-pass 7—remark-fr-de-pass 8—remark-local-prec-pass 10—discard 11—remark-dscp-continue 12—remark-precedence-continue 13—remark-mpls-exp-continue 14—remark-dot1p-continue 15—remark-atm-clp-continue. 16—remark-fr-de-continue. 17—remark-local-prec-continue. 19—continue.	The default YellowActionType is pass. When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, drop the packet. When YellowActionType is 10, remark local precedence of the packet and send it. When YellowActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When YellowActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When YellowActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When YellowActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When YellowActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When YellowActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy. When YellowActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When YellowActionType is 19, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When YellowActionType is 1, 10 or 19, YellowActionValue is invalid. When YellowActionType is 6, 7, 15, 16, YellowActionValue is 0~1. When YellowActionType is 3, 4, 5, 8, 12, 13, 14, 17, YellowActionValue is 0~7. When YellowActionType is 2, 11, YellowActionValue is 0~63.
RedAction	Specify behavior for Red packets	Data structure	Members include: RedActionType RedActionValue	RedActionValue is required when GreenActionType is not 1, 10 or 19.
RedActionType	Action type	N/A	Enumeration: 1—pass.	The default RedActionType is discard.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—remark-dscp-pass • 3—remark-precedence-pass • 4—remark-mpls-exp-pass • 5—remark-dot1p-pass • 6—remark-atm-clp-pass • 7—remark-fr-de-pass • 8—remark-local-prec-pass • 10—discard • 11—remark-dscp-continue • 12—remark-precedence-continue • 13—remark-mpls-exp-continue • 14—remark-dot1p-continue • 15—remark-atm-clp-continue • 16—remark-fr-de-continue • 17—remark-local-prec-continue. • 19—continue.	When RedActionType is 1, send the packet. When RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it. When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, drop the packet. When RedActionType is 10, remark local precedence of the packet and send it. When RedActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy. When RedActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When RedActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When RedActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When RedActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When RedActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When RedActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When RedActionType is 19, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When RedActionType is 1, 10 or 19, RedActionValue is invalid. When RedActionType is 6, 7, 15, 16, RedActionValue is 0~1. When RedActionType is 3, 4, 5, 8, 12, 13, 14, 17, RedActionValue is 0~7. When RedActionType is 2, 11, RedActionValue is 0~63.

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CAR

CAR/CarLists

This table contains information about committed-access-rate list.

XML structure

```
<CAR>
  <CarLists>
    <List>
      <CarlID></CarlID>
      <Mac></Mac>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <DestIPRange>
        <DestIPStart></DestIPStart>
        <DestIPEnd></DestIPEnd>
      </DestIPRange>
      <SrcIPRange>
        <SrcIPStart></SrcIPStart>
        <SrcIPEnd></SrcIPEnd>
      </SrcIPRange>
      <DestIPSubnet>
        <DestSubnetIP></DestSubnetIP>
        <DestMaskLength></DestMaskLength>
      </DestIPSubnet>
      <SrcIPSubnet>
        <SrcSubnetIP></SrcSubnetIP>
        <SrcMaskLength></SrcMaskLength>
      </SrcIPSubnet>
      <SrcIPObjGroup></SrcIPObjGroup>
      <DestIPObjGroup></DestIPObjGroup>
      <Mode></Mode>
      <Trange></Trange>
    </List>
  </CarLists>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarLists
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CarlID	CAR list number	Index	Unsigned integer. Value range: 1 to 199.	N/A
Mac	Match the MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 Dscp for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 Exp for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 IPPrecedence for a rule
DestIPRange	Match destination IP by range.	Data structure	Members include: DestIPStart DestIPEnd	The two members must both be specified.
DestIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
DestIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. DestIPEnd must be bigger than DestIPStart .
SrcIPRange	Match source IP by range.	Data structure	Members include: SrcIPStart SrcIPEnd	The two members must both be specified.
SrcIPStart	Start IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIPEnd	End IP of range.	N/A	String, dotted decimal notation.	Example: 10.153.93.60. SrcIPEnd must be bigger than SrcIPStart .
DestIPSubnet	Match destination IP by	Data structure	Members include: DestSubnetIP	The two members must both be specified.

	subnet.		DestMaskLength	
DestSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DestMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPSubnet	Match source IP by subnet.	Data structure	Members include: - SrcSubnetIP - SrcMaskLength	The two members must both be specified.
SrcSubnetIP	Subnet IP.	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
SrcMaskLength	MaskLength.	N/A	Unsigned integer.	The maximum value is 31. The minimum value varies by device model.
SrcIPObjGroup	Match source IP by objgroup.	N/A	String case insensitive. Length: 1 to 31 characters.	The object group name cannot contain '?'. The character '\n' in object group name can't be treated as escape character.
DestIPObjGroup	Match destination IP by objgroup.	N/A	String case insensitive. Length: 1 to 31	The object group name can't contain '?'. The character '\n' in object group name can't be treated as escape character.
Mode	Match Mode.	N/A	Enumeration: 1—PerAddress. 2—SharedBandwidth.	When the Mode column is 1, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment doesn't share the remaining bandwidth. When the Mode column is 2, Per-IP address rate is limited within the network segment, and traffic of all IP addresses within the network segment shares the remaining bandwidth.
Trange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 32 characters.	The time range name cannot be all and the '?' should not be used . The character '\n' in time range name can't be treated as escape character.

CAR/CarPolicies

This table contains information about committed-access-rate policy.

XML structure

```
<CAR>
  <CarPolicies>
    <Policy>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </Policy>
  </CarPolicies>
</CAR>
```

Table description

Item	Description
Feature name	CAR
Table name	CarPolicies
Table type	Multi-instance table
Row name	Policy

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
Type	Match type	Index	Enumeration : 1—IPv4Acl 2—IPv6Acl 3—Carl 4—Any	N/A
Value	Match type value	Index	Unsigned integer.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: - GreenActionType - GreenActionValue	N/A
GreenActionType	Action type	N/A	Enumeration: 1—pass. 2—remark--dscp--pass 3—remark--precedence--pass 4—remark--mpls--exp--pass 5—remark-dot1p-pass 6—remark-atm-clp-pass 7—remark-fr-de-pass 8—remark-local-prec-pass 10—discard 11—remark-dscp-continue 12—remark-precedence-continue 13—remark-mpls-exp-c	The default GreenActionType is pass. When GreenActionType is 1, send the packet. When GreenActionType is 2, remark DSCP value of the packet and send it. When GreenActionType is 3, remark IP precedence of the packet and send it. When GreenActionType is 4, remark EXP of the MPLS packet and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType

Column name	Column description	Column type	Data type and restrictions	Remarks
			continue • 14—remark-dot1p-continue • 15—remark-atm-clp-continue. • 16—remark-fr-de-continue. • 17—remark-local-prec-continue. • 19—continue	is 6, remark CLP bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, drop the packet. When GreenActionType is 10, remark local precedence of the packet and send it. When GreenActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy. When GreenActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When GreenActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When GreenActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When GreenActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When GreenActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy. When GreenActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When GreenActionType is 19, continue to process the packet using the next CAR policy.
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When GreenActionType is 1, 10 or 19, GreenActionValue is invalid. When GreenActionType is 6, 7, 15, 16, GreenActionValue is 0~1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When GreenActionType is 3, 4, 5, 8, 12, 13, 14, 17, GreenActionValue is 0~7. When GreenActionType is 2, 11, GreenActionValue is 0~63.
YellowAction	Specify behavior for Yellow packets	Data structure	Members include: YellowActionType YellowActionValue	N/A
YellowActionType	Action type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass 3—remark-precedence-pass 4—remark-mpls-exp-pass 5—remark-dot1p-pass 6—remark-atm-clp-pass 7—remark-fr-de-pass 8—remark-local-prec-pass 10—discard 11—remark-dscp-continue 12—remark-precedence-continue 13—remark-mpls-exp-continue 14—remark-dot1p-continue 15—remark-atm-clp-continue. 16—remark-fr-de-continue. 17—remark-local-prec-continue. 19—continue	The default YellowActionType is pass. When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, drop the packet. When YellowActionType is 10, remark local precedence of the packet and send it. When YellowActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy. When YellowActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When YellowActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When YellowActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When YellowActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When YellowActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy. When YellowActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When YellowActionType is 19, continue to process the packet using the next CAR policy.
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When YellowActionType is 1, 10 or 19, YellowActionValue is invalid. When YellowActionType is 6, 7, 15, 16, YellowActionValue is 0~1. When YellowActionType is 3, 4, 5, 8, 12, 13, 14, 17, YellowActionValue is 0~7. When YellowActionType is 2, 11, YellowActionValue is 0~63.
RedAction	Specify behavior for Red packets	Data structure	Members include: RedActionType RedActionValue	N/A
RedActionType	Action type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass 3—remark-precedence-pass 4—remark-mpls-exp-pass 5—remark-dot1p-pass 6—remark-atm-clp-pass 7—remark-fr-de-pass 8—remark-local-prec-pass	The default RedActionType is discard. When RedActionType is 1, send the packet. When RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—discard • 11—remark-dscp-continue • 12—remark-precedence-continue • 13—remark-mpls-exp-continue • 14—remark-dot1p-continue • 15—remark-atm-clp-continue. • 16—remark-fr-de-continue. • 17—remark-local-prec-continue. • 19—continue	When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, drop the packet. When RedActionType is 10, remark local precedence of the packet and send it. When RedActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy. When RedActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy. When RedActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy. When RedActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy. When RedActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy. When RedActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy. When RedActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy. When RedActionType is 19, continue to process the packet using the next CAR policy.
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	When RedActionType is 1 , 10 or 19 , RedActionValue is

Column name	Column description	Column type	Data type and restrictions	Remarks
				invalid. When RedActionType is 6, 7, 15, 16 , RedActionValue is 0~1. When RedActionType is 3, 4, 5, 8, 12, 13, 14, 17 , RedActionValue is 0~7. When RedActionType is 2, 11 , RedActionValue is 0~63.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

CAR/Capability

This table contains capability information about committed-access-rate.

XML structure

```

<CAR>
  <Capability>
    <MQCTokenPara></MQCTokenPara>
    <CIRMin></CIRMin>
    <CIRMax></CIRMax>
    <CIRGranularity></CIRGranularity>
    <CBSMin></CBSMin>
    <CBSMax></CBSMax>
    <CBSGranularity></CBSGranularity>
    <EBSMin></EBSMin>
    <EBSMax></EBSMax>
    <EBSGranularity></EBSGranularity>
    <PIRMin></PIRMin>
    <PIRMax></PIRMax>
    <PIRGranularity></PIRGranularity>
  </Capability>
</CAR>

```

Table description

Item	Description
Feature name	CAR
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MQCTokenPara	Token bucket capability	N/A	Each bit represents a type as follows: • 1—CBS • 2—EBS • 4—PIR	The value of this column depends on the device model.
CIRMin	Minimum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CIRMax	Maximum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CIRGranularity	Granularity of CIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CBSMin	Minimum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
CBSMax	Maximum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
CBSGranularity	Granularity of CBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBSMin	Minimum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
EBSMax	Maximum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBSGranularity	Granularity of EBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
PIRMin	Minimum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
PIRMax	Maximum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRGranularity	Granularity of PIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.

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Collaboration/ClearInactivePorts

This table remove ineffective ports from all collaboration groups

XML structure

```
<Collaboration>
  <ClearInactivePorts>
    <Clear></Clear>
  </ClearInactivePorts>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	ClearInactivePorts
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Remove ineffective ports from all collaboration groups	N/A	This column must be empty.

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XML structure.....	1
Table description	2
Columns	2
Collaboration/Interfaces	2
XML structure.....	2
Table description	3
Columns	3

Collaboration

Collaboration/Global

This table contains Collaboration group global information.

XML structure

```
<Collaboration>
  <Global>
    <Enable></Enable>
  </Global>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether Collaboration group is enabled globally.	N/A	Boolean: true—Enabled. (default). false—Disabled.

Collaboration/Groups

This table contains information about Collaboration group.

XML structure

```
<Collaboration>
  <Groups>
    <Group>
```

```

        <ID></ID>
        <UpDelay></UpDelay>
    </Group>
</Groups>
</Collaboration>

```

Table description

Item	Description
Feature name	Collaboration
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The maximum collaboration group ID varies by device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Collaboration group ID.	Index	Unsigned integer Length: 32 bits.	The maximum collaboration group ID varies by device model.
UpDelay	Updelaytimer in seconds	N/A	Unsigned integer. Value range: 0 to 3600. - Default: 0.	The up delay is the time that the interfaces in the collaboration group wait before they come up when the device restarts.

Collaboration/Interfaces

This table contains information about port of Collaboration group.

XML structure

```

<Collaboration>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ID></ID>
    </Interface>
  </Interfaces>
</Collaboration>

```

Table description

Item	Description
Feature name	Collaboration
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports Layer 2/3 Ethernet interface, Layer 2/3 aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lflindex	Interface index	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ID	Collaboration group ID.	N/A	Unsigned integer. • Default: 0.	The maximum collaboration group ID varies by device model..

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<lflindex>1</lflindex>
2	Single interface name	<lflindex>GigabitEthernet 0/0/2</lflindex>
3	Multiple interface names	<lflindex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</lflindex>
4	Interface range name	<lflindex>RangeName</lflindex>
5	Mixture of interface range name and interface names	<lflindex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</lflindex>

Contents

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Collaboration/Groups.....	1
XML structure.....	1
Table description	2
Columns	2
Collaboration/Interfaces	3
XML structure.....	3
Table description	3
Columns	3

Collaboration

Collaboration/Global

This table contains Collaboration group global information.

XML structure

```
<Collaboration>
  <Global>
    <Enable></Enable>
    <MaxGroupId></MaxGroupId>
  </Global>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Global
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether Collaboration group is enabled globally.	N/A	Boolean: true—Enabled. false—Disabled.
MaxGroupId	The max Collaboration group id	N/A	Unsigned integer Length: 32 bits.

Collaboration/Groups

This table contains information about Collaboration group.

XML structure

```
<Collaboration>
  <Groups>
```

```

<Group>
  <ID></ID>
  <Status></Status>
  <UpDelay></UpDelay>
  <LastUpTime></LastUpTime>
  <LastDownTime></LastDownTime>
</Group>
</Groups>
</Collaboration>

```

Table description

Item	Description
Feature name	Collaboration
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Collaboration group ID.	Index	Unsigned integer Length: 32 bits.	The maximum collaboration group ID varies by device model.
Status	The status of Collaboration group	N/A	Unsigned integer. Length: 8 bits. Enumeration: 0—N/A 1—DOWN. 2—UP 3—UP-Pending.	N/A
UpDelay	Updelaytimer in seconds	N/A	Unsigned integer. Value range: 0 to 3600. - Default: 0.	The up delay is the time that the interfaces in the collaboration group wait before they come up when the device restarts.
LastUpTime	Group last up time	N/A	DateTime.	N/A
LastDownTime	Group last down time	N/A	DateTime.	N/A

Collaboration/Interfaces

This table contains information about port of Collaboration group.

XML structure

```
<Collaboration>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ID></ID>
      <Status></Status>
    </Interface>
  </Interfaces>
</Collaboration>
```

Table description

Item	Description
Feature name	Collaboration
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ID	Collaboration group ID.	N/A	Unsigned integer Length: 32 bits.	The maximum collaboration group ID varies by device model.
Status	The status of ports	N/A	Unsigned integer. Length: 8 bits. Enumeration: • 0—UP. • 1—DOWN. • 2—Collaboration-down • 3—Not available	

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>

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Columns	1
Configuration/MDCOrContextFiles	2
XML structure	2
Table description	2
Columns	2

Configuration

Configuration/Files

This table contains configuration file information.

XML structure

```
<Configuration>
  <Files>
    <File>
      <Name></Name>
      <NextMain></NextMain>
      <NextBackup></NextBackup>
    </File>
  </Files>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Configuration file must have the suffix .cfg, and must already exist in the root directory of storage medium.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Full path and filename. Example: flash:/startup.cfg chassis3#slot1#flash:/main.cfg	Index	String. Length: 1 to 255 characters.
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: • true • false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: • true • false

Configuration/MDCOrContextFiles

This table contains information about an MDC or a context.

XML structure

```
<Configuration>
  <MDCOrContextFiles>
    <MDCOrContextFile>
      <MDCOrContextID></MDCOrContextID>
      <Name></Name>
      <Save></Save>
      <Overwrite></Overwrite>
    </MDCOrContextFile>
  </MDCOrContextFiles>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	MDCOrContextFiles
Table type	Multi-instance table
Row name	MDCOrContextFile
Restrictions	On the default MDC or context, all MDCs or contexts can be operated. On a non-default MDC or context, only the current MDC or context can be operated.

Columns

Column name	Column description	Column type	Data type and restrictions
MDCOrContextID	MDC or context index	Index	Unsigned integer.
Name	Full path and filename. Example: chassis3#slot1#flash:/main.cfg flash:/startup.cfg main.cfg	Index	String. Length: 1 to 300 characters. This directory must be the root directory of the active MPU. The filename (without the chassisN#slotN# field) must not exceed 255 characters.
Save	Save configuration.	N/A	This column must be empty.
Overwrite	Whether to overwrite the configuration file if it has already existed.	N/A	Boolean: - true - false

Column name	Column description	Column type	Data type and restrictions
			This column must coexist with the Save column.

Contents

Configuration	1
Configuration/System	1
XML structure	1
Table description	1
Columns	1

Configuration

Configuration/System

This table contains configuration information.

XML structure

```
<Configuration>
  <System>
    <Encryption></Encryption>
  </System>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	System
Table type	Single-instance
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Encryption	Encryption mode	N/A	Enumeration: • 0—Unencrypted • 1—Private-key encryption • 2—Public-key encryption

Contents

Configuration.....	1
Configuration/System.....	1
XML structure	1
Table description.....	1
Columns.....	1
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XML structure	1
Table description.....	2
Columns.....	2
Configuration/MDCOrContextFiles	2
XML structure	2
Table description.....	3
Columns.....	3

Configuration

Configuration/System

This table contains configuration information.

XML structure

```
<Configuration>
  <System>
    <Encryption></Encryption>
  </System>
</Configuration>
```

Table description

Item	Description
Feature name	Configuration
Table name	System
Table type	Single-instance
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Encryption	Encryption mode.	N/A	Enumeration: • 0—Unencrypted • 1—Private-key encryption • 2—Public-key encryption

Configuration/Files

This table contains configuration file information.

XML structure

```
<Configuration>
  <Files>
    <File>
      <Name></Name>
      <Running></Running>
      <NextMain></NextMain>
    </File>
  </Files>
</Configuration>
```



```

        <NextBackup></NextBackup>
    </File>
</Files>
</Configuration>

```

Table description

Item	Description
Feature name	Configuration
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Configuration file must have the suffix .cfg, and must already exist in the root directory of storage medium.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Full path and filename. Example: - flash:/startup.cfg - chassis3#slot1#flash:/main.cfg	Index	String. Length: 1 to 255 characters.
Running	Whether the configuration file is the current startup configuration file.	N/A	Boolean: - true - false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: - true - false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: - true - false

Configuration/MDCOrContextFiles

This table contains configuration file information for an MDC or a context.

XML structure

```

<Configuration>
  <MDCOrContextFiles>
    <MDCOrContextFile>
      <MDCOrContextID></MDCOrContextID>
      <Name></Name>
    </MDCOrContextFile>
  </MDCOrContextFiles>
</Configuration>

```

```

    <Running></Running>
    <NextMain></NextMain>
    <NextBackup></NextBackup>
  </MDCOrContextFile>
</MDCOrContextFiles>
</Configuration>

```

Table description

Item	Description
Feature name	Configuration
Table name	MDCOrContextFiles
Table type	Multi-instance table
Row name	MDCOrContextFile
Restrictions	On the default MDC or context, information about all MDCs or contexts can be queried. On a non-default MDC or context, only information about the current MDC or context can be queried.

Columns

Column name	Column description	Column type	Data type and restrictions
MDCOrContextID	MDC or context index	Index	Unsigned integer.
Name	Full path and filename. Example: - flash:/startup.cfg - chassis3#slot1#flash:/main.cfg	Index	String. Length: 1 to 300 characters.
Running	Whether the configuration file is the current startup configuration file.	N/A	Boolean: - true - false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: - true - false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: - true - false

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XML structure	6
Table description	6
Columns	7
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XML structure	10
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Columns	11
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XML structure	11
Table description	12
Columns	12

Context

Context/ContextInformations

This table is used to configure contexts for a device and show context's state.

XML structure

```
<Context>
  <ContextInformations>
    <ContextInformation>
      <ContextID></ContextID>
      <Name></Name>
      <State></State>
      <Description></Description>
      <Mode></Mode>
      <Belongto></Belongto>
      <BladeControllerTeam></BladeControllerTeam>
    </ContextInformation>
  </ContextInformations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ContextInformations
Table type	Multi-instance table
Row name	ContextInformation
Restrictions	firewall card:to start or stop a context should act in mdc the context belongedto ;Other actions only support default MDC. centralized firewall and packaging firewall:Only support default Context.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	0 means the system assigns the lowest ID number among the

Column name	Column description	Column type	Data type and restrictions	Remarks
				available IDs to the Context.
Name	Full name of an context	N/A	String. Length: 1 to 15 characters.	firewall card: There is no default context. centralized firewall and packaging firewall:The name of default context is Admin
State	State of the MDC	N/A	Enumeration: 1: start 2: stop	start—Start the context. stop—Stop the context.
Description	Description of context	N/A	String. Length: 1 to 255 characters.	N/A
Belongto	Name of context's parentMDC	N/A	String. Length: 1 to 15 characters.	firewall card: Name of context's parentMDC. centralized firewall and packaging firewall:not support
Mode	Vlan mode of a context.	N/A	Enumeration: 1: VLAN shared 2: VLAN unshared	VLAN shared:Vlans can be allocated to different context sharely. VLAN unshared:4k vlans belongto the context unsharely. Default : mode is VLAN SHARED, firewall card and centralized firewall: the mode can't be customized packaging firewall: the mode can be customized.
BladeControllerTeam	BladeControllerTeam ID	N/A	Unsigned integer. Value range: 1 to 256.	Location: Authorize the context to use the resource of BladeControllerTeams.

Context/Resources/Disks

This table contains disk information.

XML structure

```
<Context>
  <Resources>
    <Disks>
      <Disk>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	firewall card: Only can be configured in default MDC. centralized firewall and packaging firewall: Disk resource of user contexts can be configured by the default context, while disk resource of default context can't be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedR	reserve resources of	N/A	Unsigned integer.	Not support yet.

Column name	Column description	Column type	Data type and restrictions	Remarks
atio	disk(%)		Value range: 0 to 100.	
QuotaRatio	The total limit resources of disk.(%)	N/A	Positive integer. Value range: 1 to 100.	The default value is 100.

Context/Resources/Memories

This table contains memory infomation.

XML structure

```

<Context>
  <Resources>
    <Memories>
      <Memory>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	firewall card: Only can be configured in default MDC. centralized firewall and packaging firewall:Memory resource of user contexts can be configured by the default context, while memory resource of default context can't be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	The default value is 100.

Context/Resources/CPU

This table contains cpu information.

XML structure

```
<Context>
  <Resources>
    <CPUs>
      <CPU>
        <ContextID></ContextID>
        <Weight></Weight>
      </CPU>
    </CPUs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	firewall card: Only can be configured in default MDC.

	centralized firewall and packaging firewall:CPU resource of user contexts can be configured by the default context, while CPU resource of default context can't be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Weight	CPU weight-maximum of available resources of CPU. UNITS : weight	N/A	Positive integer. Value range:1-10	Limit maximum of cpu resource. Default:Each context has a CPU weight of 10.

Context/Resource/Throughputs

This table contains information of throughputs.

XML structure

```

<Context>
  <Resources>
    <Throughputs>
      <Throughput>
        <ContextID></ContextID>
        <ThroughputValue>
          <Unit></Unit>
          <Value></Value>
        </ThroughputValue>
      </Throughput>
    </Throughputs>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default context supports.

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
ThroughputValue	Throughputs value	Data structure	Members include: - Unit. - Value.	"Unit" should be configed together with "value"
Unit	Unit of throughput	N/A	Enumeration: 1: kbps 2: pps	N/A
Value	Value of throughput	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A

Context/Resource/ObjectPolicyRules

This table contains information of Object Policy Rules.

XML structure

```

<Context>
  <Resources>
    <ObjectPolicyRules>
      <ObjectPolicyRule>
        <ContextID></ContextID>
        <Max></Max>
      </ObjectPolicyRule>
    </ObjectPolicyRules>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	ObjectPolicyRules
Table type	Multi-instance table
Row name	ObjectPolicyRule
Restrictions	Only the default context supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
Max	Maxnum of ObjectPolicyRules	N/A	Positive integer.	The value range depends on the device model.

Context/Resource/Sessions

This table contains information of sessions.

XML structure

```
<Context>
  <Resources>
    <Sessions>
      <Session>
        <ContextID></ContextID>
        <MaxNum></MaxNum>
        <MaxRate></MaxRate>
      </Session>
    </Sessions>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default context supports.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxNum	Maxnum of sessions	N/A	Positive integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxRate	Maxnum of transfer rate:1/s	N/A	Positive integer.	N/A

Context/Allocations

This table contains physical interface.

XML structure

```

<Context>
  <Allocations>
    <Allocation>
      <ContextID></ContextID>
      <UnsharedInterfaceList></UnsharedInterfaceList>
      <SharedInterfaceList></SharedInterfaceList>
      <VLAN></VLAN>
    </Allocation>
  </Allocations>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	firewall card : only support MDC. centralized firewall and packaging firewall:Only support default Context.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	N/A	Unsigned integer.	N/A
UnsharedInterfaceList	List of unshared interfaces	N/A	String.	firewall card :not support centralized firewall and packaging firewall:allocate

Column name	Column description	Column type	Data type and restrictions	Remarks
				unshared interfaces. Different interfaces combinations(a sigle interface or interface list)are separated by comma',',interface lists are separated by 'to '(There is a apace on both sides of the word 'to'). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48
SharedInterfaceList	List of shared interfaces	N/A	String.	firewall card :not support centralized firewall and packaging firewall:allocate shared interfaces. Different interfaces combinations(a sigle interface or interface list)are separated by comma',',interface lists are separated by 'to '(There is a apace on both sides of the word 'to'). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48
VLAN	Vlan list	N/A	Numeric string separated by comma and minus,end of which can't be comma or minux,can't contain blank. Such as: 1,2,3,5-8,10-20	N/A

Context/LocationBladeControllerTeams(discard)

This table contains location state of a BladeControllerTeam.

XML structure

```

<Context>
  <LocationBladeControllerTeams>
    <LocationBCT>
      <ContextID></ContextID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBCT>
  </LocationBladeControllerTeams>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBCT
Restrictions	firewall card: query all contexts' information in the default MDC. centralized firewall and packaging firewall: query all contexts' information in the default Context.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the context to use the resource of BladeControllerTeams. the default context is authorized to use resource of all the bladecontroller teams

Context/Resource/SSLVPNs

This table contains information about SSL VPNs.

XML structure

```
<Context>
  <Resources>
    <SSLVPNs>
      <SSLVPN>
        <ContextID></ContextID>
        <MaxUserNum></MaxUserNum>
      </SSLVPN>
    </SSLVPNs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	SSLVPNs
Table type	Multi-instance table
Row name	SSLVPN
Restrictions	Only the default context supports SSL VPN.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxUserNum	Maximum number of SSL VPN users	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A

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Context

Context/ContextInformations

This table is used to configure contexts for a device and show context's state.

XML structure

```
<Context>
  <ContextInformations>
    <ContextInformation>
      <ContextID></ContextID>
      <Name></Name>
      <Description></Description>
      <Belongto></Belongto>
      <Mode></Mode>
      <Status></Status>
      <BladeControllerTeam></BladeControllerTeam>
    </ContextInformation>
  </ContextInformations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	ContextInformations
Table type	Multi-instance table
Row name	ContextInformation
Restrictions	firewall card:query contexts' infomation in mdc the context belongedto ; query all contexts' information in the default MDC. centralized firewall and packaging firewall:query all contexts' information in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Name	Full name of an Context	N/A	String. Length: 1 to 15 characters.	firewall card:There is no default context. centralized firewall

Column name	Column description	Column type	Data type and restrictions	Remarks
				and packaging firewall: The name of default context is Admin
Description	Description of context	N/A	String. Length: 1 to 255 characters.	N/A
Belongto	Name of context's parentMDC	N/A	String. Length: 1 to 15 characters.	firewall card: Name of context's parentMDC. centralized firewall and packaging firewall: blank
Mode	Vlan mode of a context.	N/A	Enumeration: 1: VLAN shared 2: VLAN unshared	VLAN shared: Vlans can be allocated to different context sharely. VLAN unshared: 4k vlans belongto the context unsharely. Default : mode is VLAN SHARED, firewall card and centralized firewall: the mode can't be customized packaging firewall: the mode can be customized.
Status	Status of the context	N/A	Enumeration: 1: inactive 2: starting 3: active 4: stopping 5: updating	- inactive—The context is stopped or not started yet. - starting—The device is executing the context start command to start the context. - active—The context is operating correctly. - stopping—The device is executing the undo context start command to stop the context. - updating—The context is updating.
BladeControllerTeam	BladeControllerTeam ID	N/A	Unsigned integer. Value range: 0 to 256.	Location: Authorize the context

Column name	Column description	Column type	Data type and restrictions	Remarks
				to use the resource of BladeControllerTeams. 0 means the context does not location bladecontrollerteam

Context/Resources/Disks

This table contains disk information.

XML structure

```

<Context>
  <Resources>
    <Disks>
      <Disk>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Partition></Partition>
        <Quota></Quota>
        <Reserved></Reserved>
        <Used></Used>
        <Available></Available>
      </Disk>
    </Disks>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	firewall card:query contexts'disk resource in mdc the context belonged to ; query all contexts' disk resource in the default MDC. centralized firewall and packaging firewall:query all contexts' disk

	resource in the default Context.
--	----------------------------------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Partition	Instance name of disk resource	Index	String. Length: 1 to 31 characters.	N/A
Quota	The total limit resources of disk(KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maximum of disk resource.
Reserved	reserve resources of disk(KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the context doesn't have reserve resource of disk.
Used	Current usage of disk resources(KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of disk(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used)and idle resource of disk.

Context/Resources/Memories

This table contains memory information.

XML structure

```

<Context>
  <Resources>
    <Memories>
      <Memory>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Quota></Quota>
        <Reserved></Reserved>
        <Used></Used>
      </Memory>
    </Memories>
  </Resources>
</Context>

```

```

        <Available></Available>
    </Memory>
</Memories>
</Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	firewall card:query contexts' memory resource in mdc the context belonged to ; query all contexts' memory resource in the default MDC. centralized firewall and packaging firewall:query all contexts' memory resource in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Quota	The total limit resources of memory(KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maximum of disk resource.
Reserved	reserve resources of memory(KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the context doesn't have reserve resource of memory.
Used	Current usage of memory resources(KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of memory(KB)	N/A	Unsigned integer.	The minimum between(Quota-Used)and idle resource of disk.

Context/Resources/CPU

This table contains cpu information.

XML structure

```
<Context>
  <Resources>
    <CPUs>
      <CPU>
        <ContextID></ContextID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Weight></Weight>
        <Usage></Usage>
      </CPU>
    </CPUs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	firewall card:query contexts' cpu resource in mdc the context belonged to ; query all contexts' cpu resource in the default MDC. centralized firewall and packaging firewall:query all contexts' cpu resource in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context index	Index	Unsigned integer.	N/A
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Weight	CPU weight-maximum of available resources of CPU(weight)	N/A	Positive integer. Value range:1-10	Limit maximum of cpu resource. Default:Each context has a CPU weight of 10.
Usage	Current usage of CPUresources(%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Context/Resource/Throughputs

This table contains infomation of throughputs.

XML structure

```

<Context>
  <Resources>
    <Throughputs>
      <Throughput>
        <ContextID></ContextID>
        <ThroughputValue>
          <Unit></Unit>
          <Value></Value>
        </ThroughputValue>
      </Throughput>
    </Throughputs>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Throughputs
Table type	Multi-instance table
Row name	Throughput
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ThroughputValue	Throughputs value	Data structure	Members include: - Unit. - Value.	N/A
Unit	Unit of throughput	N/A	Enumeration: 1: kbps 2: pps	N/A
Value	Value of throughput	N/A	Unsigned integer. Value range: 1000 to 100000000.	0 means no restrictions

Context/Resource/ObjectPolicyRules

This table contains information of Object Policy Rules.

XML structure

```

<Context>
  <Resources>
    <ObjectPolicyRules>
      <ObjectPolicyRule>
        <ContextID></ContextID>
        <Max></Max>
      </ObjectPolicyRule>
    </ObjectPolicyRules>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	ObjectPolicyRules
Table type	Multi-instance table
Row name	ObjectPolicyRule
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
Max	Maxnum of ObjectPolicyRule	N/A	Positive integer.	The value range depends

Column name	Column description	Column type	Data type and restrictions	Remarks
	s			on the device model. 0 means no restrictions

Context/Resource/Sessions

This table contains information of sessions.

XML structure

```

<Context>
  <Resources>
    <Sessions>
      <Session>
        <ContextID></ContextID>
        <MaxNum></MaxNum>
        <MaxRate></MaxRate>
      </Session>
    </Sessions>
  </Resources>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	Only the default context supports.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxNum	Maxnum of sessions	N/A	Positive integer.	0 means no restrictions
MaxRate	Maxnum of transfer rate:1/s	N/A	Positive integer.	0 means no restrictions

Context/InterfaceAllocations

This table contains physical interface.

XML structure

```
<Context>
  <InterfaceAllocations>
    <InterfaceAllocation>
      <IfName></IfName>
      <ContextID></ContextID>
      <AllocType><AllocType>
    </InterfaceAllocation>
  </InterfaceAllocations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	InterfaceAllocations
Table type	Multi-instance table
Row name	Interface
Restrictions	Default Context can query the contexts' information of all the interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Full name of an interface	Index	String. Length: 2 to 47 characters.	N/A
ContextID	Context ID	Index	Unsigned integer.	N/A
AllocType	Interface assignment type	N/A	Enumeration: 0: Invalid 1: The interface has not been allocated. 2: The allocation type is shared. 3: The allocation type is exclusive.	N/A

Context/Allocations

This table contains interfaces and vlans.

XML structure

```
<Context>
  <Allocations>
    <Allocation>
      <ContextID></ContextID>
      <UnsharedInterfaceList></UnsharedInterfaceList>
      <SharedInterfaceList></SharedInterfaceList>
      <VLAN></VLAN>
    </Allocation>
  </Allocations>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	firewall card : only support MDC. centralized firewall and packaging firewall:Only support default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	N/A	Unsigned integer.	N/A
UnsharedInterfaceList	List of unshared interfaces	N/A	String. Unshared interface list Such as: GigabitEthernet2/2/0/2,GigabitEthernet2/2/0/5 to GigabitEthernet2/2/0/6	N/A
SharedInterfaceList	List of shared interfaces	N/A	String. Shared interface list Such as: GigabitEthernet2/2/0/3,GigabitEthernet2/2/0/7 to GigabitEthernet2/2/0/8	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VLAN	Vlan list	N/A	Numeric string Such as: 1,2,3,5-8,10-20	N/A

Context/VLANAllocations

This table contains informations of vlans.

XML structure

```

<Context>
  <VLANAllocations>
    <VLANAllocation>
      <VLANID></VLANID>
      <ContextID></ContextID>
      <ContextIDList></ContextIDList>
    </VLANAllocation>
  </VLANAllocations>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	VLANAllocations
Table type	Multi-instance table
Row name	VLANAllocation
Restrictions	Default Context can query the contexts' information of all the vlans.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	Vlan Index	Index	Positive integer.	firewall card :There is not default context. centralized firewall and packaging firewall:the default Context's ID is 1.
ContextID	Context ID	N/A	Unsigned integer.	The minimal Context ID of the VLAN
ContextIDList	Context ID List	N/A	String. Length: 1to 65535 characters.	Example: 2,3,5-8,10-20. Available Context IDs are in the ContextID column in

Column name	Column description	Column type	Data type and restrictions	Remarks
			It is a comma-separated list of Context ID items. An item can be an individual Context ID or a Context ID range. Use a hyphen (-) to separate the start and end Context IDs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	the Context/ContextInformation table.

Context/Capabilities

This table contains capability information of context.

XML structure

```

<Context>
  <Capabilities>
    <BelongtoSupport></BelongtoSupport>
    <ModeSupport></ModeSupport>
  </Capabilities>
</Context>

```

Table description

Item	Description
Feature name	Context
Table name	Capabilities
Table type	Multi-instance table
Row name	N/A
Restrictions	Only support the default context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BelongtoSupport	Check whether belongto can be configured.	N/A	Boolean: - true - false	N/A
ModeSupport	Check whether vlan mode can be configured.	N/A	Boolean: - true - false	N/A

Context/LocationBladeControllerTeams(discard)

This table contains location state of a BladeControllerTeam.

XML structure

```
<Context>
  <LocationBladeControllerTeams>
    <LocationBCT>
      <ContextID></ContextID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBCT>
  </LocationBladeControllerTeams>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBCT
Restrictions	firewall card: query all contexts' information in the default MDC. centralized firewall and packaging firewall:query all contexts' information in the default Context.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
BladeControllerTeam	BladeControllerTeam ID	N/A	Unsigned integer. Value range: 1to 256.	
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the context to use the resource of BladeControllerTeams. the default context is authorized to use resource of all the bladecontrollerteams

Context/Resource/SSLVPNs

This table contains information about SSL VPNs.

XML structure

```
<Context>
  <Resources>
    <SSLVPNs>
      <SSLVPN>
        <ContextID></ContextID>
        <MaxUserNum></MaxUserNum>
      </SSLVPN>
    </SSLVPNs>
  </Resources>
</Context>
```

Table description

Item	Description
Feature name	Context
Table name	SSLVPNs
Table type	Multi-instance table
Row name	SSLVPN
Restrictions	Only the default context supports SSL VPN.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	context index	Index	Unsigned integer.	N/A
MaxUserNum	Maximum number of SSL VPN users	N/A	Unsigned integer. Value range: 1 to 1048575.	0 means no limit on the number of SSL VPN users.

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Table description	4
Columns	4

CustomLog

CustomLog/LogHost

This table contains custom log hosts information.

XML structure

```
<CustomLog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <OutputLog>
        <CmccSessionlog></CmccSessionlog>
        <CmccUserlog></CmccUserlog>
        <TelecomSessionlog></TelecomSessionlog>
        <TelecomUserlog></TelecomUserlog>
        <UnicomSessionlog></UnicomSessionlog>
        <UnicomUserlog></UnicomUserlog>
        <Sessionlog></Sessionlog>
        <PacketFilterlog></PacketFilterlog>
        <ATKlog></ATKlog>
        <AFTlog></AFTlog>
        <DPIAuditlog></DPIAuditlog>
        <DPIUfltlog></DPIUfltlog>
      </OutputLog>
    </Host>
  </LogHosts>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to four log hosts.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Host name: Case-insensitive string. Host name length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www.example.com
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	Index	Unsigned integer. Value range: 1 to 65535. Default: 514.	N/A
OutputLog	Type of logs to be sent to the log host	Data structure	Members include: • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUfitlog	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • true • false	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • true • false	N/A
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: - true - false	N/A
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: - true - false	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: - true - false	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: - true - false	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: - true - false	N/A
ATKlog	Enabling status of outputting ATK logs to the log host	N/A	Boolean: - true - false	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: - true - false	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: - true - false	N/A
DPIUflog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: - true - false	N/A

CustomLog/LogAttribute

This table contains global attributes about custom log.

XML structure

```
<CustomLog>
  <LogAttribute>
    <LogFormat></LogFormat>
    <Timestamp></Timestamp>
    <SourceInterface></SourceInterface>
    <SessionLogFormat></SessionLogFormat>
    <PacketFilterLogFormat></PacketFilterLogFormat>
    <ATKLogFormat></ATKLogFormat>
    <AFTLogFormat></AFTLogFormat>
    <DPIAuditLogFormat></DPIAuditLogFormat>
    <DPIUfltLogFormat></DPIUfltLogFormat>
  </LogAttribute>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogFormat	Format for outputting NAT444 custom logs	N/A	Enumeration: 0—Output NAT444 logs with Unicom format. 1—Output NAT444 logs with Telecom format. 2—Output NAT444 logs with CMCC format. 3—Do not output NAT444 logs. (Default).	N/A
Timestamp	Timestamp type of NAT444 custom log	N/A	Enumeration: 0—Greenwich Mean Time(GMT). (Default) 1—Local time of device.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceInterface	Name of source Interface address for output custom NAT444 logs	N/A	String Length: 2 to 47 characters.	Example: Ethernet0/0/0 Only interfaces that support IP address configuration can be specified.
SessionLogFormat	Format for outputting session custom logs	N/A	Enumeration: 0—Output standard H3C format session logs. 1—Do not output session logs (Default).	N/A
PacketFilterLogFormat	Format for outputting packet filter custom logs	N/A	Enumeration: 0—Output standard H3C format packet filter logs. 1—Do not output packet filter logs (Default).	N/A
ATKLogFormat	Format for outputting ATK custom logs	N/A	Enumeration: 0—Output standard H3C format ATK logs. 1—Do not output ATK logs (Default).	N/A
AFTLogFormat	Format for outputting AFT custom logs	N/A	Enumeration: 0—Output standard H3C format AFT logs. 1—Do not output AFT logs (Default).	N/A
DPIAuditLogFormat	Format for outputting DPI audit custom logs	N/A	Enumeration: 0—Output standard H3C format DPI audit logs. 1—Do not output DPI audit logs (Default).	N/A
DPIUfltLogFormat	Format for outputting DPI URL filter custom logs	N/A	Enumeration: 0—Output standard H3C format DPI URL filter logs. 1—Do not output DPI URL filter logs (Default).	N/A

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CustomLog/LogAttribute	3
XML structure	4
Table description	4
Columns	4

CustomLog

CustomLog/LogHost

This table contains custom log hosts information.

XML structure

```
<CustomLog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <OutputLog>
        <CmccSessionlog></CmccSessionlog>
        <CmccUserlog></CmccUserlog>
        <TelecomSessionlog></TelecomSessionlog>
        <TelecomUserlog></TelecomUserlog>
        <UnicomSessionlog></UnicomSessionlog>
        <UnicomUserlog></UnicomUserlog>
        <Sessionlog></Sessionlog>
        <PacketFilterlog></PacketFilterlog>
        <ATKlog></ATKlog>
        <AFTlog></AFTlog>
        <DPIDebuglog></DPIDebuglog>
        <DPIUfltlog></DPIUfltlog>
      </OutputLog>
    </Host>
  </LogHosts>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to four log hosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Host name: Case-insensitive string. Host name length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www.example.com
VRF	VPN instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	Index	Unsigned integer. Value range: 1 to 65535.	N/A
OutputLog	Type of logs to be sent to the log host	Data structure	Members include: • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUftlog	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • true • false	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: • true • false	N/A
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: • true • false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: - true - false	N/A
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: - true - false	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: - true - false	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: - true - false	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: - true - false	N/A
ATKlog	Enabling status of outputting attack defense logs to the log host	N/A	Boolean: - true - false	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: - true - false	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: - true - false	N/A
DPIUflog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: - true - false	N/A

CustomLog/LogAttribute

This table contains global attributes about custom log.

XML structure

```
<CustomLog>
  <LogAttribute>
    <LogFormat></LogFormat>
    <Timestamp></Timestamp>
    <SourceInterface></SourceInterface>
    <SessionLogFormat></SessionLogFormat>
    <PacketFilterLogFormat></PacketFilterLogFormat>
    <ATKLogFormat></ATKLogFormat>
    <AFTLogFormat></AFTLogFormat>
    <DPIAuditLogFormat></DPIAuditLogFormat>
    <DPIUfltLogFormat></DPIUfltLogFormat>
  </LogAttribute>
</CustomLog>
```

Table description

Item	Description
Feature name	CustomLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogFormat	The format for outputting NAT444 custom logs	N/A	Enumeration: 0—Output NAT444 logs with Unicom format. 1—Output NAT444 logs with Telecom format. 2—Output NAT444 logs with CMCC format. 3—Do not output NAT444 logs.	N/A
Timestamp	The timestamp type of NAT444 custom log	N/A	Enumeration: 0—Greenwich Mean Time (GMT). 1—Local time of device.	N/A
SourceInterface	The name of source Interface for output custom NAT444 logs	N/A	String Length: 2 to 47 characters.	Example: Ethernet0/0/0 Only interfaces that support IP address configuration can be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLogFormat	Format for outputting session custom logs	N/A	Enumeration: 0—Output standard H3C format session logs. 1—Do not output session logs.	N/A
PacketFilterLogFormat	Format for outputting packet filter custom logs	N/A	Enumeration: 0—Output standard H3C format packet filter logs. 1—Do not output packet filter logs.	N/A
ATKLogFormat	Format for outputting ATK custom logs	N/A	Enumeration: 0—Output standard H3C format ATK logs. 1—Do not output ATK logs.	N/A
AFTLogFormat	Format for outputting AFT custom logs	N/A	Enumeration: 0—Output standard H3C format AFT logs. 1—Do not output AFT logs.	N/A
DPIAuditLogFormat	Format for outputting DPI audit custom logs	N/A	Enumeration: 0—Output standard H3C format DPI audit logs. 1—Do not output DPI audit logs.	N/A
DPIUfltLogFormat	Format for outputting DPI URL filter custom logs	N/A	Enumeration: 0—Output standard H3C format DPI URL filter logs. 1—Do not output DPI url filter logs.	N/A

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CWMP

CWMP/Configuration

This table contains information about the CWMP Global Settings.

XML structure

```
<CWMP>
  <Configuration>
    <Status></Status>
    <ACS>
      <URL></URL>
      <UserName></UserName>
      <Password></Password>
    </ACS>
    <CPE>
      <UserName></UserName>
      <Password></Password>
      <ConnectInterface></ConnectInterface>
      <InformPeriodicStatus></InformPeriodicStatus>
      <InformPeriodicInterval></InformPeriodicInterval>
    </CPE>
  </Configuration>
</CWMP>
```

Table description

Item	Description
Feature name	CWMP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Status	Status of the CWMP	N/A	Enumeration: • enable. • disable(default).

Column name	Column description	Column type	Data type and restrictions
ACS	ACS Settings	Data structure	Members include: • URL. • UserName. • Password.
URL	Status of the log buffer	N/A	String. Length: 8 to 255 characters. Must match the following formats: http://host[:port]/path or https://host[:port]/path
UserName	User name to access ACS	N/A	String. Length: 1 to 255 characters.
Password	Password to access ACS	N/A	String. Length: 1 to 255 characters. Only support password in plain text.
CPE	CPE Settings	Data structure	Members include: • UserName. • Password. • ConnectInterface. • InformPeriodicStatus. • InformPeriodicInterval.
UserName	User name to access CPE	N/A	String. Length: 1 to 255 characters. Case-insensitive and contains no comma(,),equal(=),double quotation marks(") ,
Password	Password to access CPE	N/A	String. Length: 1 to 255 characters. Only support password in plain text.
ConnectInterface	CPE use this interface to send packets	N/A	String. Length: 2 to 47 characters.
InformPeriodicStatus	Enable or disable the periodic Inform feature of the CPE.	N/A	Enumeration: • enable. • disable(default).
InformPeriodicInterval	Configure the periodic Inform interval of the CPE.	N/A	Unsigned integer. Value range: 10 to 86400.

Contents

CWMP.....	1
CWMP/Configuration	1
XML structure.....	1
Table description.....	1
Columns	1

CWMP

CWMP/Configuration

This table contains information about the CWMP Global Settings.

XML structure

```
<CWMP>
  <Configuration>
    <Status></Status>
    <ACS>
      <URL></URL>
      <UserName></UserName>
    </ACS>
    <CPE>
      <UserName></UserName>
      <ConnectInterface></ConnectInterface>
      <InformPeriodicStatus></InformPeriodicStatus>
      <InformPeriodicInterval></InformPeriodicInterval>
    </CPE>
  </Configuration>
</CWMP>
```

Table description

Item	Description
Feature name	CWMP
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Status	Status of the CWMP	N/A	Enumeration: • enable. • disable(default).
ACS	ACS Settings	Data structure	Members include: • URL. • UserName.

Column name	Column description	Column type	Data type and restrictions
URL	Status of the log buffer	N/A	String. Length: 8 to 255 characters.
UserName	User name to access ACS	N/A	String. Length: 1 to 255 characters.
CPE	CPE Settings	Data structure	Members include: • UserName. • ConnectInterface. • InformPeriodicStatus. • InformPeriodicInterval.
UserName	User name to access CPE	N/A	String. Length: 1 to 255 characters.
ConnectInterface	CPE use this interface to send packets	N/A	String. Length: 2 to 47 characters.
InformPeriodicStatus	Enable or disable the periodic Inform feature of the CPE.	N/A	Enumeration: • enable. • disable(default).
InformPeriodicInterval	Configure the periodic Inform interval of the CPE.	N/A	Unsigned integer. Value range: 10 to 86400.

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XML structure	2
Table description	2
Columns	2

DaeProxy

DaeProxy/DaeProxyService

The status table of the RADIUS Dynamic Authorization Extensions (DAE) proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyService>
    <Status></Status>
    <ServerPort></ServerPort>
  </DaeProxyService>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the RADIUS DAE proxy service.	N/A	Boolean: true—Enabled. false—Disabled.	Default: false.
ServerPort	UDP port number of the RADIUS DAE server feature.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

DaeProxy/DaeProxyClients

Client information table of the RADIUS DAE proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyClients>
    <DaeProxyClient>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <Key></Key>
    </DaeProxyClient>
  </DaeProxyClients>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyClients
Table type	Multi-instance table
Row name	DaeProxyClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of the DAE client IP address.	Index	Enumeration: 0—IPv4. 1—IPv6	Only support IPv4 at present.
IpAddress	IP address of the DAE client.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Key	Shared key of the RADIUS packets exchanged between the DAE server and client.	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

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XML structure	3
Table description	3
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DaeProxy

DaeProxy/DaeProxyService

The status table of the RADIUS Dynamic Authorization Extensions (DAE) proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyService>
    <Status></Status>
    <ServerPort></ServerPort>
  </DaeProxyService>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the RADIUS DAE proxy service.	N/A	Boolean: true—Enabled. false—Disabled.	Default: false.
ServerPort	UDP port number of the RADIUS DAE server feature.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column takes effect only when the Status column is true.

DaeProxy/DaeProxyClients

Client information table of the RADIUS DAE proxy service.

XML structure

```
<DaeProxy>
  <DaeProxyClients>
    <DaeProxyClient>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <Key></Key>
    </DaeProxyClient>
  </DaeProxyClients>
</DaeProxy>
```

Table description

Item	Description
Feature name	DaeProxy
Table name	DaeProxyClients
Table type	Multi-instance table
Row name	DaeProxyClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Type of the DAE client IP address.	Index	Enumeration: 0—IPv4. 1—IPv6.	Only support IPv4 at present.
IpAddress	IP address of the DAE client.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Column name	Column description	Column type	Data type and restrictions	Remarks
Key	Shared key of the RADIUS packets exchanged between the DAE server and client.	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

DaeProxy/Statistic

RADIUS DAE proxy statistics table.

XML structure

```

<DaeProxy>
  <Statistic>
    <DmReq></DmReq>
    <DmAck></DmAck>
    <DmNak></DmNak>
    <CoaReq></CoaReq>
    <CoaAck></CoaAck>
    <CoaNak></CoaNak>
    <ReTrans></ReTrans>
    <FindNasFail></FindNasFail>
    <SendToNasFail></SendToNasFail>
  </Statistic>
</DaeProxy>

```

Table description

Item	Description
Feature name	DaeProxy
Table name	Statistic
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DmReq	Number of DM request packets.	N/A	Unsigned integer.
DmAck	Number of DM ACK packets.	N/A	Unsigned integer.
DmNak	Number of DM NAK packets.	N/A	Unsigned integer.
CoaReq	Number of CoA request packets.	N/A	Unsigned integer.
CoaAck	Number of CoA ACK packets.	N/A	Unsigned integer.
CoaNak	Number of CoA NAK packets.	N/A	Unsigned integer.
ReTrans	Number of packets that the DAE client retransmits to the DAE server.	N/A	Unsigned integer.
FindNasFail	Number of packets for which the device can't locate the DAE server.	N/A	Unsigned integer.
SendToNasFail	Number of packets failed to send to the DAE server.	N/A	Unsigned integer.

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XML structure	4
Table description	4
Columns	4
DFILTER/PatternInKGroup	4
XML structure	4
Table description	5
Columns	5
DFILTER/PrePatternInKGroup	5
XML structure	5
Table description	6
Columns	6

DFILTER

DFILTER/Policy

This table contains data filter policie information.

XML structure

```
<DFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the data filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the data filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PolicyInProfile

This table contains data filter policies applied to the profile.

XML structure

```
<DFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

DFILTER/RuleInPolicy

This table contains the information of rules in a data filter policy.

XML structure

```
<DFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <KGroupName></KGroupName>
      <Application></Application>
      <Direction></Direction>
    </Rule>
  </RuleInPolicy>
</DFILTER>
```

```

    <Action></Action>
    <Logging></Logging>
  </Rule>
</RuleInPolicy>
</DFILTER>

```

Table description

Item	Description
Feature name	DFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupName	Name of the keyword-group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: 1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true - false	N/A

DFILTER/KGroup

This table contains data filter keyword group information.

XML structure

```
<DFILTER>
  <KGroups>
    <KGroup>
      <KGroupName></KGroupName>
      <KGroupDescription></KGroupDescription>
    </KGroup>
  </KGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	KGroups
Table type	Multi-instance table
Row name	KGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupDescription	Description of the keyword group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PatternInKGroup

This table contains information about user-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PatternInKGroups>
```

```

    <PatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
      <PatternType></PatternType>
      <PatternValue></PatternValue>
    </PatternInKGroup>
  </PatternInKGroups>
</DFILTER>

```

Table description

Item	Description
Feature name	DFILTER
Table name	PatternInKGroups
Table type	Multi-instance table
Row name	PatternInKGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the user-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternType	Type of the user-defined pattern	N/A	Enumeration: 0—Text. 1—Regex.	N/A
PatternValue	Value of the user-defined pattern	N/A	String. Length: 3 to 245 characters.	N/A

DFILTER/PrePatternInKGroup

This table contains information about pre-defined pattern in a data filter keyword group.

XML structure

```

<DFILTER>
  <PrePatternInKGroups>
    <PrePatternInKGroup>
      <KGroupName></KGroupName>

```



```

        <PatternName></PatternName>
    </PrePatternInKGroup>
</PrePatternInKGroups>
</DFILTER>

```

Table description

Item	Description
Feature name	DFILTER
Table name	PrePatternInKGroups
Table type	Multi-instance table
Row name	PrePatternInKGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pre-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	The pattern name includes bank-card-number, credit-card-number, id-card-number and phone-number

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DFILTER

DFILTER/Policy

This table contains data filter policie information.

XML structure

```
<DFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the data filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the data filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PolicyInProfile

This table contains data filter policies applied to the profile.

XML structure

```
<DFILTER>
```

```

<PolicyInProfile>
  <Profile>
    <ProfileName></ProfileName>
    <PolicyName></PolicyName>
  </Profile>
</PolicyInProfile>
</DFILTER>

```

Table description

Item	Description
Feature name	DFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

DFILTER/RuleInPolicy

This table contains information about rules in a data filter policy.

XML structure

```

<DFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <KGroupName></KGroupName>
      <Application></Application>
      <Direction></Direction>
      <Action></Action>
      <Logging></Logging>
    </Rule>
  </RuleInPolicy>
</DFILTER>

```

Table description

Item	Description
Feature name	DFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupName	Name of the keyword-group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: 1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload. 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop. 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true. - false.	N/A

DFILTER/KGroup

This table contains data filter keyword groups information.

XML structure

```
<DFILTER>
  <KGroups>
    <KGroup>
      <KGroupName></KGroupName>
      <KGroupDescription></KGroupDescription>
    </KGroup>
  </KGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	KGroups
Table type	Multi-instance table
Row name	KGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupDescription	Description of the keyword group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

DFILTER/PatternInKGroup

This table contains information about user-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PatternInKGroups>
    <PatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
      <PatternType></PatternType>
      <PatternValue></PatternValue>
    </PatternInKGroup>
  </PatternInKGroups>
```

</DFILTER>

Table description

Item	Description
Feature name	DFILTER
Table name	PatternInKGroups
Table type	Multi-instance table
Row name	PatternInKGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the user-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternType	Type of the user-defined pattern	N/A	Enumeration: 0—Text. 1—Regex.	N/A
PatternValue	Value of the user-defined pattern	N/A	String. Length: 3 to 245 characters.	N/A

DFILTER/PrePatternInKGroup

This table contains information about pre-defined pattern in a data filter keyword group.

XML structure

```
<DFILTER>
  <PrePatternInKGroups>
    <PrePatternInKGroup>
      <KGroupName></KGroupName>
      <PatternName></PatternName>
    </PrePatternInKGroup>
  </PrePatternInKGroups>
</DFILTER>
```

Table description

Item	Description
Feature name	DFILTER
Table name	PrePatternInKGroups
Table type	Multi-instance table
Row name	PrePatternInKGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pre-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	The pattern name includes bank-card-number, credit-card-number, id-card-number and phone-number

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Resource Summary for DFILTER

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policy	/api/v1/DFILTER/Policy	Y	Y	Y	Y
PolicyInProfile	/api/v1/DFILTER/PolicyInProfile	Y	Y	Y	Y
RuleInPolicy	/api/v1/DFILTER/RuleInPolicy	Y	Y	Y	Y
KGroup	/api/v1/DFILTER/KGroup	Y	Y	Y	Y
PatternInKGroup	/api/v1/DFILTER/PatternInKGroup	Y	Y	Y	Y
PrePatternInKGroup	/api/v1/DFILTER/PrePatternInKGroup	Y	Y	Y	Y

DFILTER

Policy

This table contains information about the data filter policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the data filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the data filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DFILTER/Policy?index=PolicyName%3D1

Json Response

200 OK

```
{
  "Policies":
  [{
    "PolicyName": "1",
    "PolicyDescription": "PolicyDescription1"
  }
]
```

```
    }}  
  }  
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/Policy

```
{  
  "Policies":  
  [{  
    "PolicyName":"2",  
    "PolicyDescription":"PolicyDescription2"  
  }]  
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DFILTER/Policy?index=PolicyName%3D3

Json Response

```
{  
  "Policies":  
  [{  
    "PolicyName":"3",  
    "PolicyDescription":"PolicyDescription3"  
  }]  
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DFILTER/Policy?index=PolicyName%3D4

Json Response

204 No Content

PolicyInProfile

This table contains data filter policies applied to the profile.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DFILTER/PolicyInProfile?index=ProfileName%3D1

Json Response

200 OK

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "1",
    "PolicyName": "PolicyName1"
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/PolicyInProfile

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "2",
    "PolicyName": "PolicyName2"
  }]
}
```

```
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DFILTER/PolicyInProfile?index=ProfileName%3D3

Json Response

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "3",
    "PolicyName": "PolicyName3"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DFILTER/PolicyInProfile?index=ProfileName%3D4

Json Response

204 No Content

RuleInPolicy

This table contains information about rules in a data filter policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupName	Name of the keyword-group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the	N/A	Each bit represents a	Examples:

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule		Enumeration: 1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true - false	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DFILTER/RuleInPolicy?index=PolicyName%3Dp1%3BRuleName%3Dr1

Json Response

200 OK

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p1",
    "RuleName": "r1",
    "KGroupName": "KGroupName1",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/RuleInPolicy

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p2",
    "RuleName": "r2",
    "KGroupName": "KGroupName2",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DFILTER/RuleInPolicy?index=PolicyName%3Dp3%3BRuleName%3Dr3

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p3",
    "RuleName": "r3",
    "KGroupName": "KGroupName3",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DFILTER/RuleInPolicy?index=PolicyName%3Dp4%3BRuleName%3Dr4

Json Response

204 No Content

KGroup

This table contains data filter keyword groups information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
KGroupDescription	Description of the keyword group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DFILTER/KGroup?index=KGroupName%3D1

Json Response

200 OK

```
{
  "KGroups":
  [{
    "KGroupName": "1",
    "KGroupDescription": "KgroupDescription1"
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/KGroup

```
{
  "KGroups":
  [{
    "KGroupName": "2",
    "KGroupDescription": "KgroupDescription2"
  }]
}
```



```
    }}  
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DFILTER/KGroup?index=KGroupName%3D3

Json Response

```
{  
  "KGroups":  
  [{  
    "KGroupName": "3",  
    "KGroupDescription": "KgroupDescription3"  
  }]  
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DFILTER/KGroup?index=KGroupName%3D4

Json Response

204 No Content

PatternInKGroup

This table contains information about user-defined pattern in a data filter keyword group.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the user-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PatternType	Type of the user-defined pattern	N/A	Enumeration: 0—Text 1—Regex	N/A
PatternValue	Value of the user-defined pattern	N/A	String. Length: 3 to 245 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DFILTER/PatternInKGroup?index=KGroupName%3Dk1%3BPatternName%3Dp1

Json Response

200 OK

```
{
  "PatternInKGroups":
  [{
    "KGroupName": "k1",
    "PatternName": "p1",
    "PatternType": 0,
    "PatternValue": "PatternValue1",
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/PatternInKGroup

```
{
  "PatternInKGroups":
  [{
    "KGroupName": "k2",
    "PatternName": "p2",
    "PatternType": 0,
    "PatternValue": "PatternValue2",
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DFILTER/PatternInKGroup?index=KGroupName%3Dk3%3BPatternName%3Dp3

Json Response

```
{
  "PatternInKGroups":
  [{
    "KGroupName": "k3",
    "PatternName": "p3",
    "PatternType": 0,
    "PatternValue": "PatternValue3",
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DFILTER/PatternInKGroup?index=KGroupName%3Dk4%3BPatternName%3Dp4

Json Response

204 No Content

PrePatternInKGroup

This table contains information about pre-defined pattern in a data filter keyword group.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
KGroupName	Name of the keyword group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pre-defined pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	The pattern name includes bank-card-number, credit-card-number, id-card-number and phone-number

Example

Example 1: Get data from the resource table.

Json Request

GET
/api/v1/DFILTER/PrePatternInKGroup?index=KGroupName%3Dk1%3BPatternName%3Dbank-card-number

Json Response

200 OK

```
{
  "PrePatternInKGroups":
  [{
    "KGroupName":"k1",
    "PatternName":"bank-card-number",
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DFILTER/PrePatternInKGroup

```
{
  "PrePatternInKGroups":
  [{
    "KGroupName":"k2",
    "PatternName":"id-card-number",
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT
/api/v1/DFILTER/PrePatternInKGroup?index=KGroupName%3Dk3%3BPatternName%3Dphone-number

Json Response

```
{
  "PrePatternInKGroups":
```

```
{
  "KGroupName": "k3",
  "PatternName": "phone-number",
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE
/api/v1/DFILTER/PrePatternInKGroup?index=KGroupName%3Dk4%3BPatternName%3Dphone-number

Json Response

204 No Content

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Table description	4
Columns	4

DDNS

DDNS/DDNSPolicy

This table contains DNS policy configuration information.

XML structure

```
<DDNS>
  <DDNSPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <URL></URL>
      <IntervalDay></IntervalDay>
      <IntervalHour></IntervalHour>
      <IntervalMinute></IntervalMinute>
      <Username></Username>
      <Password></Password>
      <Method></Method>
      <SSLClientPolicy></SSLClientPolicy>
    </Policy>
  </DDNSPolicy>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks	
URL	URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 240 characters.	The URL addresses configured for update requests depend on the DDNS servers. Common DDNS server URL address format are shown in following table.	
				DDNS server	URL addresses for DDNS update requests
				www.3322.org	http://members.3322.org/dyndns/update?system=dyndns&hostname=<h>&myip=<a>
				DYDNS	http://members.dyndns.org/nic/update?system=dyndns&hostname=<h>&myip=<a>
				DYNS	http://www.dyns.cx/postscript.php?host=<h>&myip=<a>
				ZONE EDIT	http://dynamic.zoneedit.com/auth/dynamic?host=<h>&dnsto=<a>
				TZO	http://cgi.tzo.com/webclient/signedon.html?Name=<h>IPAddress=<a>
				EASY DNS	http://members.easydns.com/dyn/ez-ipupdate.php?action=edit&myip=<a>&host_id=<h>
				HEIP V6TB	http://dyn.dns.he.net/nic/update?hostname=<h>&myip=<a>
				CHANGE-IP	http://nic.changeip.com/nic/update?hostname=<h>&offline=1
				NO-IP	http://dynupdate.no-ip.com/nic/update?hostname=<h>&myip=<a>
				DHS	http://members.dhs.org/nic/hosts?domain=dhs.org&hostname=<h>&hostscmd=edit&hostscmdstage=2&type=1&ip=<a>
				HP	https://server-name/nic/update?group=group-name&myip=<a>
				ODS	ods://update.ods.org
				GNUDIP	gnudip://server-name
PeanutHull	oray://phservice2.oray.net				
No username or password is included in the URL address. To configure the username and password, use the username command and the password command.					
HP and GNUDIP are common DDNS update protocols. The <i>server-name</i> parameter is the domain name or IP address of the service provider's server using one of the update protocols.					
The URL address for an update request can start with:					
http://—The HTTP-based DDNS server.					
https://—The HTTPS-based DDNS server.					
ods://—The TCP-based ODS server.					
gnudip://—The TCP-based GNUDIP server.					
oray://—The TCP-based DDNS server.					
members.3322.org and phservice2.oray.net are the domain names of DDNS servers. The domain names of PeanutHull DDNS servers can be phservice2.oray.net, phddns60.oray.net, client.oray.net, ph821.oray.net, and so on.					

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalDay	Interval for sending DDNS update requests after DDNS update is enabled (Day)	N/A	Unsigned integer. Value range: 0 to 365 days. Default: 0.	It must be configured together with the IntervalHour column and IntervalMinute column. If you set the interval to 0, the device does not periodically initiate DDNS update request. However, it initiates a DDNS update request in either of the following situations: - When the primary IP address of the interface changes. - When the link state of the interface changes from down to up.
IntervalHour	Interval for sending DDNS update requests after DDNS update is enabled (Hour)	N/A	Unsigned integer. Value range: 0 to 23 hours. Default: 1.	It must be configured together with the IntervalDay column and IntervalMinute column.
IntervalMinute	Interval for sending DDNS update requests after DDNS update is enabled (minute)	N/A	Unsigned integer. Value range: 0 to 59 minutes. Default: 0.	It must be configured together with the IntervalDay column and IntervalHour column.
Username	Username to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Password	Password to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	Support for configuring in plain text only.
Method	Transmission method for sending DDNS update requests to HTTP/HTTPS-based DDNS servers	N/A	Enumeration: 0—Http-get (default). 1—Http-post.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLClientPolicy	Associate a specific SSL client policy with a DDNS policy	N/A	String, case insensitive. Length: 1 to 31 characters.	The SSL client policy is effective only for HTTPS-based DDNS update requests.

DDNS/DDNSIfApply

This table contains DDNS policy applying configuration information.

XML structure

```

<DDNS>
  <DDNSIfApply>
    <IfApply>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <FQDN></FQDN>
    </IfApply>
  </DDNSIfApply>
</DDNS>

```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSIfApply
Table type	Multi-instance table
Row name	IfApply
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A
FQDN	Type of the DNS server IP address	N/A	String, case insensitive. Length: 1 to 253 characters.	Specifies the FQDN to replace <h> in the URL for DDNS update. It can include letters, digits, hyphens (-), underscores (_), and dots (.).

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XML structure	4
Table description	4
Columns	4

DDNS

DDNS/DDNSPolicy

This table contains DNS policy configuration information.

XML structure

```
<DDNS>
  <DDNSPolicy>
    <Policy>
      <PolicyName></PolicyName>
      <URL></URL>
      <IntervalDay></IntervalDay>
      <IntervalHour></IntervalHour>
      <IntervalMinute></IntervalMinute>
      <Username></Username>
      <Password></Password>
      <Method></Method>
      <SSLClientPolicy></SSLClientPolicy>
    </Policy>
  </DDNSPolicy>
</DDNS>
```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSPolicy
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks	
URL	URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 240 characters.	The URL addresses configured for update requests depend on the DDNS servers. Common DDNS server URL address format are shown in following table.	
				DDNS server	URL addresses for DDNS update requests
				www.3322.org	http://members.3322.org/dyndns/update?system=dyndns&hostname=<h>&myip=<a>
				DYDNS	http://members.dyndns.org/nic/update?system=dyndns&hostname=<h>&myip=<a>
				DYNS	http://www.dyns.cx/postscript.php?host=<h>&myip=<a>
				ZONE EDIT	http://dynamic.zoneedit.com/auth/dynamic?host=<h>&dnsto=<a>
				TZO	http://cgi.tzo.com/webclient/signedon.html?Name=<h>IPAddress=<a>
				EASY DNS	http://members.easydns.com/dyn/ez-ipupdate.php?action=edit&myip=<a>&host_id=<h>
				HEIP V6TB	http://dyn.dns.he.net/nic/update?hostname=<h>&myip=<a>
				CHANGE-IP	http://nic.changeip.com/nic/update?hostname=<h>&offline=1
				NO-IP	http://dynupdate.no-ip.com/nic/update?hostname=<h>&myip=<a>
				DHS	http://members.dhs.org/nic/hosts?domain=dhs.org&hostname=<h>&hostscmd=edit&hostscmdstage=2&type=1&ip=<a>
				HP	https://server-name/nic/update?group=group-name&myip=<a>
				ODS	ods://update.ods.org
				GNUDIP	gnudip://server-name
PeanutHull	oray://phservice2.oray.net				
No username or password is included in the URL address. To configure the username and password, use the username command and the password command.					
HP and GNUDIP are common DDNS update protocols. The server-name parameter is the domain name or IP address of the service provider's server using one of the update protocols.					
The URL address for an update request can start with:					
http://—The HTTP-based DDNS server.					
https://—The HTTPS-based DDNS server.					
ods://—The TCP-based ODS server.					
gnudip://—The TCP-based GNUDIP server.					
oray://—The TCP-based DDNS server.					
members.3322.org and phservice2.oray.net are the domain names of DDNS servers. The domain names of PeanutHull DDNS servers can be phservice2.oray.net, phddns60.oray.net, client.oray.net, ph821.oray.net, and so on.					

Column name	Column description	Column type	Data type and restrictions	Remarks
IntervalDay	Interval for sending DDNS update requests after DDNS update is enabled (Day)	N/A	Unsigned integer. Value range: 0 to 365 days.	It must be configured together with the IntervalHour column and IntervalMinute column. If you set the interval to 0, the device does not periodically initiate DDNS update request. However, it initiates a DDNS update request in either of the following situations: - When the primary IP address of the interface changes. - When the link state of the interface changes from down to up.
IntervalHour	Interval for sending DDNS update requests after DDNS update is enabled (Hour)	N/A	Unsigned integer. Value range: 0 to 23 hours.	It must be configured together with the IntervalDay column and IntervalMinute column.
IntervalMinute	Interval for sending DDNS update requests after DDNS update is enabled (minute)	N/A	Unsigned integer. Value range: 0 to 59 minutes.	It must be configured together with the IntervalDay column and IntervalHour column.
Username	Username to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Password	Password to be included in the URL address for DDNS update requests	N/A	String, case sensitive. Length: 1 to 32 characters.	N/A
Method	Transmission method for sending DDNS update requests to HTTP/HTTPS-based DDNS servers	N/A	Enumeration: 0—Http-get 1—Http-post.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLClientPolicy	Associate a specific SSL client policy with a DDNS policy	N/A	String, case insensitive. Length: 1 to 31 characters.	The SSL client policy is effective only for HTTPS-based DDNS update requests.

DDNS/DDNSIfApply

This table contains DDNS policy applying configuration information.

XML structure

```

<DDNS>
  <DDNSIfApply>
    <IfApply>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
      <FQDN></FQDN>
    </IfApply>
  </DDNSIfApply>
</DDNS>

```

Table description

Item	Description
Feature name	DDNS
Table name	DDNSIfApply
Table type	Multi-instance table
Row name	IfApply
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
PolicyName	DDNS policy name	Index	String, case insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FQDN	Type of the DNS server IP address	N/A	String, case insensitive. Length: 1 to 253 characters.	Specifies the FQDN to replace <h> in the URL for DDNS update. It can include letters, digits, hyphens (-), underscores (_), and dots (.).

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Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <LocalTime></LocalTime>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
LocalTime	System time on the device.	DateTime. Format: YYYY-MM-DDTHH:MM:SS.

Device/Transceivers

This table contains information about ITU channels supported on the transceiver that is connected to this interface.

XML structure

```
<Device>
  <Transceivers>
    <Interface>
      <IfIndex></IfIndex>
      <ActiveITUChannel></ActiveITUChannel>
    </Interface>
  </Transceivers>
</Device>
```

```
</Transceivers>  
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	TransceiversITUChannels
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
ActiveITUChannel	The index of the specified ITU channel	N/A	Unsigned integer. Value range:1 to 4294967295.	The value depends on the device model.

Contents

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Device/Base	1
XML structure	1
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Columns	1
Device/SummerTime	2
XML structure	2
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Columns	3

Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <HostName></HostName>
    <ClockProtocol>
      <Protocol></Protocol>
      <MDCID></MDCID>
    </ClockProtocol>
    <TimeZone>
      <Zone></Zone>
      <ZoneName></ZoneName>
    </TimeZone>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Device name	N/A	String. Length: 1 to 64 characters.	N/A
ClockProtocol	System time source	Data structure	Members include: - Protocol. - MDCID.	This data structure is supported only on the default MDC.

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Time protocol	N/A	Enumeration: 2—None. 3—NTP. 4—PTP.	Required. Support for NTP and PTP depends on the device model.
MDCID	ID of the MDC used as the time source	N/A	Unsigned integer. Value range: 1 to 65535.	Supported and required on an MDC-supported device that uses NTP or PTP.
TimeZone	Time zone and its name	Data structure	Members include: - Zone. - ZoneName.	N/A
Zone	Time zone	N/A	String. Use one of the following formats: Z for the UTC. +HH:MM:SS for east time zone. -HH:MM:SS for west time zone. Value ranges: HH—0 to 23. MM—0 to 59. SS—0 to 59.	MM and SS are optional.
ZoneName	Time zone name	N/A	String. Length: 1 to 32 characters.	N/A

Device/SummerTime

This table contains summer-time information.

XML structure

```

<Device>
  <SummerTime>
    <Name></Name>
    <AddTime></AddTime>
    <DateBased>
      <BeginMonth></BeginMonth>
      <BeginDay></BeginDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndDay></EndDay>
      <EndHour></EndHour>
      <EndMinute></EndMinute>
    
```

```

        <EndSecond></EndSecond>
    </DateBased>
    <WeekBased>
        <BeginMonth></BeginMonth>
        <BeginWeek></BeginWeek>
        <BeginWeekDay></BeginWeekDay>
        <BeginHour></BeginHour>
        <BeginMinute></BeginMinute>
        <BeginSecond></BeginSecond>
        <EndMonth></EndMonth>
        <EndWeek></EndWeek>
        <EndWeekDay></EndWeekDay>
        <EndHour></EndHour>
        <EndMinute></EndMinute>
        <EndSecond></EndSecond>
    </WeekBased>
</SummerTime>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	SummerTime
Table type	Single-instance table
Row name	N/A
Restrictions	Group DateBased and WeekBased are two configuration ways. Only one way can take effect at the same time. All the members of one group should be included when tack configuration action. New configuration will replace the existing one.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name for the daylight saving time.	N/A	String. Length: 1 to 32 characters.	N/A
AddTime	The time to be added to the standard time.	N/A	String. Format: HH:MM:SS	Value ranges: HH—0 to 23. MM—0 to 59. SS—0 to 59.

Column name	Column description	Column type	Data type and restrictions	Remarks
DateBased	Daylight saving time configuration based on date.	Data Structure	Members include: - BeginMonth - BeginDay - BeginHour - BeginMinute - BeginSecond - EndMonth - EndDay - EndHour - EndMinute - EndSecond	N/A
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginDay	Begin day.	N/A	Unsigned integer. • Value range: 1 to 31.	N/A
BeginHour	Begin hour.	N/A	Unsigned integer. • Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndDay	End day.	N/A	Unsigned integer. Value range: 1 to 31.	N/A
EndHour	End hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
WeekBased	Daylight saving time configuration based on week.	Data Structure	Members include: - BeginMonth - BeginWeek - BeginWeekDay - BeginHour - BeginMinute - BeginSecond - EndMonth - EndWeek - EndWeekDay - EndHour - EndMinute - EndSecond	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginWeek	Begin week of the month.	N/A	Enumeration: 1—The first week 2—The second week 3—The third week 4—The fourth week 5—The fifth week 6—The last week	Non-existent weeks of the month are treated as the last week.
BeginWeekDay	Begin day of week.	N/A	Enumeration: 0—Sunday 1—Monday 2—Tuesday 3—Wednesday 4—Thursday 5—Friday 6—Saturday	N/A
BeginHour	Begin hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndWeek	End week of the month.	N/A	Enumeration: 1—The first week 2—The second week 3—The third week 4—The fourth week 5—The fifth week 6—The last week	Non-existent weeks of the month are treated as the last week.
EndWeekDay	End day of week.	N/A	Enumeration: 0—Sunday 1—Monday 2—Tuesday 3—Wednesday 4—Thursday 5—Friday 6—Saturday	N/A
EndHour	End hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

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XML structure	26
Table description	26
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Device/PEXCapabilities	26
XML structure	26
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Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <Uptime></Uptime>
    <HostName></HostName>
    <HostDescription></HostDescription>
    <HostOid></HostOid>
    <MinChassisNum></MinChassisNum>
    <MaxChassisNum></MaxChassisNum>
    <MinSlotNum></MinSlotNum>
    <MaxSlotNum></MaxSlotNum>
    <MinCPUIDNum></MinCPUIDNum>
    <MaxCPUIDNum></MaxCPUIDNum>
    <LocalTime></LocalTime>
    <ClockProtocol>
      <Protocol></Protocol>
      <MDCID></MDCID>
    </ClockProtocol>
    <TimeZone>
      <Zone></Zone>
      <ZoneName></ZoneName>
    </TimeZone>
  </Base>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Uptime	Time that elapsed after the device started up, in seconds	N/A	Unsigned integer.	N/A
HostName	Device name	N/A	String. Length: 1 to 64 characters.	N/A
HostDescription	Device description	N/A	String. Length: 0 to 255 characters.	N/A
HostOid	System object ID (OID) of the Device	N/A	String, dotted decimal notation.	N/A
MinChassisNum	Minimum number of the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxChassisNum	Maximum number of the chassis	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MinSlotNum	Minimum number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxSlotNum	Maximum number of the slot	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MinCPUIDNum	Minimum ID of the CPU	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxCPUIDNum	Maximum ID of the CPU	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ClockProtocol	System time source	Data structure	Members include: - Protocol. - MDCID.	This data structure is supported only on the default MDC.
Protocol	Time protocol	N/A	Enumeration: 2—None. 3—NTP. 4—PTP.	Required. Support for NTP and PTP depends on the device model.
MDCID	ID of the MDC used as the time source	N/A	Unsigned integer. Value range: 1 to 65535.	Supported and required on an MDC-supported device that uses NTP or PTP.
LocalTime	System time on the device	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeZone	Time zone and its name	Data structure	Members include: Zone.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			ZoneName.	
Zone	Time zone.	N/A	String. Use one of the following formats: Z for the UTC. +HH:MM:SS for east time zone. -HH:MM:SS for west time zone. Value ranges: HH—0 to 23. MM—0 to 59. SS—0 to 59.	MM and SS are optional.
ZoneName	Time zone name	N/A	String. Length: 1 to 32 characters.	N/A

Device/PhysicalEntities

This table contains basic information about an entity.

XML structure

```

<Device>
  <PhysicalEntities>
    <Entity>
      <PhysicalIndex></PhysicalIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Description></Description>
      <VendorType></VendorType>
      <ContainedIn></ContainedIn>
      <Class></Class>
      <ParentRelPos></ParentRelPos>
      <Name></Name>
      <HardwareRev></HardwareRev>
      <FirmwareRev></FirmwareRev>
      <SoftwareRev></SoftwareRev>
      <SerialNumber></SerialNumber>
      <MfgName></MfgName>
      <Model></Model>
      <Alias></Alias>
      <AssetID></AssetID>
      <FRU></FRU>
      <MfgDate></MfgDate>
      <Uris></Uris>
    
```

```

    </Entity>
  </PhysicalEntities>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	PhysicalEntities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index	Index	Unsigned integer.	
Chassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no chassis number, return 65535.
Slot	Slot number of the entity	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no slot number, return 65535.
SubSlot	Subslot number of the entity	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no slot number, return 65535.
Description	Entity description	N/A	String. Length: 0 to 255 characters.	N/A
VendorType	Vendor type (OID)of the entity	N/A	String, dotted decimal notation.	N/A
ContainedIn	Position of the entity	N/A	Unsigned integer.	N/A
Class	Entity type	N/A	Enumeration. • 1—Others. • 2—Unknown. • 3—Frame. • 4—Backplane. • 5—Slot or subslot. • 6—Power supply. • 7—Fan. • 8—Sensor. • 9—Module. It might indicates a card, a subcard, or, for example, a flash memory.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			10—Port. 11—IRF fabric. 12—CPU.	
ParentRelPos	Position of the entity's parent node	N/A	Signed integer. Minimum: -1.	N/A
Name	Entity name	N/A	String. Length: 0 to 255 characters.	N/A
HardwareRev	Hardware version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
FirmwareRev	Firmware version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
SoftwareRev	Software version of the entity	N/A	String. Length: 0 to 255 characters.	N/A
SerialNumber	Serial number of the entity	N/A	String. Length: 0 to 32 characters.	N/A
MfgName	Manufacturer name of the entity	N/A	String. Length: 0 to 32 characters.	N/A
Model	Entity model	N/A	String. Length: 0 to 255 characters.	N/A
Alias	Alias of the entity	N/A	String. Length: 0 to 32 characters.	N/A
AssetID	Asset ID of the entity	N/A	String. Length: 0 to 32 characters.	N/A
FRU	Whether the entity is a field replaceable unit	N/A	Enumeration: true—Supports. false—Does not support.	N/A
MfgDate	Manufacture time of the entity	N/A	Format: YYYY-MM-DDTHH:MM:SS.	N/A
Uris	CLEI code	N/A	String. Length: 0 to 32 characters.	N/A

Device/ExtPhysicalEntities

This table contains extended information about an entity.

XML structure

```
<Device>
  <ExtPhysicalEntities>
    <Entity>
```

```

<PhysicalIndex></PhysicalIndex>
<AdminState></AdminState>
<OperState></OperState>
<StandbyState></StandbyState>
<AlarmLight></AlarmLight>
<CpuUsage ></CpuUsage>
<CpuUsageThreshold></CpuUsageThreshold>
<MemUsage></MemUsage>
<MemUsageThreshold></MemUsageThreshold>
<MemSize></MemSize>
<Uptime></Uptime>
<Temperature></Temperature>
<TemperatureThreshold></TemperatureThreshold>
<Voltage></Voltage>
<VoltageLowThreshold></VoltageLowThreshold>
<VoltageHighThreshold></VoltageHighThreshold>
<TemperatureCriticalThreshold></TemperatureCriticalThreshold>
<MAC></MAC>
<ErrorStatus></ErrorStatus>
<CpuMaxUsage></CpuMaxUsage>
<TemperatureLowThreshold></TemperatureLowThreshold>
<TemperatureShutdownThreshold></TemperatureShutdownThreshold>
<PhyMemSize></PhyMemSize>
<CpuFrequency></CpuFrequency>
<FristUsedDate></FristUsedDate>
<CpuAvgUsage></CpuAvgUsage>
<MemAvgUsage></MemAvgUsage>
<MemType></MemType>
</Entity>
</ExtPhysicalEntities >
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	ExtPhysicalEntities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PhysicalIndex	Entity index	Index	Unsigned integer.
AdminState	Management status	N/A	Enumeration: 1—Unsupported. 2—Disabled. 3—Shut down. 4—Enabled.
OperState	Operation status	N/A	Enumeration: 1—Unsupported. 2—Unusable. 3—Usable. 4—Dangerous, cannot be used.
StandbyState	Standby status	N/A	Enumeration: 1—Unsupported. 2—Hot standby. 3—Cold standby. 4—In service.
AlarmLight	Alarm LED status	N/A	Unsigned integer.
CpuUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
CpuUsageThreshold	CPU usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100
MemUsage	Memory usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemUsageThreshold	Memory usage threshold (bytes)	N/A	Unsigned integer. Value range: 0 to 100
MemSize	Memory size (bytes)	N/A	Unsigned integer.
Uptime	Time that elapsed after the entity started up (seconds)	N/A	Unsigned integer.
Temperature	Temperature of the entity (°C)	N/A	Signed integer.
TemperatureThreshold	High-temperature threshold (°C)	N/A	Signed integer.
Voltage	Voltage of the entity (V)	N/A	Unsigned integer.
VoltageLowThreshold	Low-voltage threshold (V)	N/A	Unsigned integer.
VoltageHighThreshold	High-voltage threshold (V)	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
TemperatureCriticalThreshold	Critical high-voltage threshold (°C)	N/A	Signed integer.
MAC	MAC address of the entity	N/A	String. Format: HH-HH-HH-HH-HH-HH
ErrorStatus	Error status of the entity	N/A	Unsigned integer, greater than 0. Commonly used states: • 1—Not supported. • 2—Normal. • 3—Power-on self test failure. • 4—The entity is absent. • 11—POE error. • 21—Stack error. • 22—IRF port is blocked. • 23—IRF port failed. • 31—SFP receiving error. • 32—SFP sending error. • 33—SFP error in both direction. • 41—Fan error. • 51—PSU error. • 61—RPS error. • 71—Module is faulty. • 81—Sensor error. • 91—Hardware is faulty.
CpuMaxUsage	Maximum CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
TemperatureLowThreshold	Low temperature threshold (°C)	N/A	Signed integer.
TemperatureShutdownThreshold	Shutdown temperature threshold (°C)	N/A	Signed integer.
PhyMemSize	Physical memory size (bytes)	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$
CpuFrequency	CPU frequency (Hz)	N/A	Unsigned integer.
FristUsedDate	Time when the entity was used for the first time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
CpuAvgUsage	Average CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemAvgUsage	Average memory usage (%)	N/A	Unsigned integer. Value range: 0 to 100
MemType	Memory type	N/A	String. Length: 0 to 32 characters.

Device/Transceivers

This table contains power information about a transceiver module.

XML structure

```
<Device>
  <Transceivers>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <HardwareType></HardwareType>
      <TransceiverType></TransceiverType>
      <WaveLength></WaveLength>
      <VendorName></VendorName>
      <SerialNumber></SerialNumber>
      <FiberDiameterType></FiberDiameterType>
      <TransferDistance></TransferDistance>
      <Diagnostic></Diagnostic>
      <CurRxPower></CurRxPower>
      <MaxRxPower></MaxRxPower>
      <MinRxPower></MinRxPower>
      <CurTxPower></CurTxPower>
      <MaxTxPower></MaxTxPower>
      <MinTxPower></MinTxPower>
      <Temperature></Temperature>
      <Voltage></Voltage>
      <BiasCurrent></BiasCurrent>
      <TemperatureHiAlarm></TemperatureHiAlarm>
      <TemperatureLoAlarm></TemperatureLoAlarm>
      <TemperatureHiWarn></TemperatureHiWarn>
      <TemperatureLoWarn></TemperatureLoWarn>
      <VccHiAlarm></VccHiAlarm>
      <VccLoAlarm></VccLoAlarm>
      <VccHiWarn></VccHiWarn>
      <VccLoWarn></VccLoWarn>
      <BiasHiAlarm></BiasHiAlarm>
      <BiasLoAlarm></BiasLoAlarm>
      <BiasHiWarn></BiasHiWarn>
      <BiasLoWarn></BiasLoWarn>
      <PwrOutHiAlarm></PwrOutHiAlarm>
      <PwrOutLoAlarm></PwrOutLoAlarm>
      <PwrOutHiWarn></PwrOutHiWarn>
      <PwrOutLoWarn></PwrOutLoWarn>
      <RcvPwrHiAlarm></RcvPwrHiAlarm>
      <RcvPwrLoAlarm></RcvPwrLoAlarm>
      <RcvPwrHiWarn></RcvPwrHiWarn>
      <RcvPwrLoWarn></RcvPwrLoWarn>
    </Interface>
  </Transceivers>
</Device>
```

```

    <TransceiverErrors></TransceiverErrors>
    <VendorOUI></VendorOUI>
    <RevisionNumber></RevisionNumber>
    <Frequency></Frequency>
    <ActiveITUChannel></ActiveITUChannel>
    <CurWaveErr></CurWaveErr>
    <WaveErrHiAlarm></WaveErrHiAlarm>
    <WaveErrLoAlarm></WaveErrLoAlarm>
    <CurFreqErr></CurFreqErr>
    <FreqErrHiAlarm></FreqErrHiAlarm>
    <FreqErrLoAlarm></FreqErrLoAlarm>
  </Interface>
</Transceivers>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	Transceiver
Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for interfaces that support a transceiver

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Name	Interface name	N/A	String. Length: 2 to 47 characters.	N/A
HardwareType	Hardware type	N/A	String. Length: 0 to 63 characters.	For example, SM indicates single mode.
TransceiverType	Transceiver type	N/A	String. Length: 0 to 63 characters.	For example, SFP, XFP, and GBIC.
WaveLength	Wave length (nm)	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VendorName	Vendor name	N/A	String. Length: 0 to 63 characters.	N/A
SerialNumber	Serial number	N/A	String. Length: 0 to 63 characters.	N/A
FiberDiameterType	Fiber diameter type	N/A	Unsigned integer. Commonly used values: • 1—Fiber, 9 µm. • 2—Fiber, 50 µm. • 3—Fiber, 62.5 µm. • 4—Copper. • 65535—Unknown.	N/A
TransferDistance	Maximum transmission distance (meters)	N/A	Integer.	N/A
Diagnostic	Diagnostic function	N/A	Unsigned integer: • 1—Enabled. • 2—Disabled.	N/A
CurRxPower	Current received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MaxRxPower	Maximum received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MinRxPower	Minimum received optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
CurTxPower	Current transmitted optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MaxTxPower	Maximum transmitted optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
MinTxPower	Minimum transmitted optical power (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
Temperature	Temperature (°C)	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Voltage	Voltage (one hundredth of a volt)	N/A	Integer.	N/A
BiasCurrent	Current (one hundredth of an mA)	N/A	Integer.	N/A
TemperatureHiAlarm	Transceiver temperature high alarm threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureLoAlarm	Transceiver temperature low alarm threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureHiWarn	Transceiver temperature high warning threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
TemperatureLoWarn	Transceiver temperature low warning threshold (thousandths of degrees Celsius)	N/A	Integer.	N/A
VccHiAlarm	Transceiver VCC high alarm threshold (hundreds of microvolts)	N/A	Integer.	N/A
VccLoAlarm	Transceiver VCC low alarm threshold (hundreds of microvolts)	N/A	Integer.	N/A
VccHiWarn	Transceiver VCC high warning threshold (hundreds of microvolts)	N/A	Integer.	N/A
VccLoWarn	Transceiver VCC low warning	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	threshold (hundreds of microvolts)			
BiasHiAlarm	Transceiver bias high alarm threshold (microamps)	N/A	Integer.	N/A
BiasLoAlarm	Transceiver bias low alarm threshold (microamps)	N/A	Integer.	N/A
BiasHiWarn	Transceiver bias high warning threshold (microamps)	N/A	Integer.	N/A
BiasLoWarn	Transceiver bias low warning threshold (microamps)	N/A	Integer.	N/A
PwrOutHiAlarm	Transceiver transmit power high alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutLoAlarm	Transceiver transmit power low alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutHiWarn	Transceiver transmit power high warning threshold (tenths of microwatts)	N/A	Integer.	N/A
PwrOutLoWarn	Transceiver transmit power low warning threshold (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrHiAlarm	Transceiver receive power high alarm threshold (tenths of microwatts)	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RcvPwrLoAlarm	Transceiver receive power low alarm threshold (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrHiWarn	Transceiver receive power high warning threshold (tenths of microwatts)	N/A	Integer.	N/A
RcvPwrLoWarn	Transceiver receive power low warning threshold (tenths of microwattss)	N/A	Integer.	N/A
TransceiverErrors	Bitmask indicating transceiver errors	N/A	1: xcvrIOError(0) 2: xcvrChecksum(1) 3: xcvrTypeAndPortConfigMismatch(2) 4: xcvrTypeNotSupported(3) 5: wisLocalFault(4) 6: rcvOpticalPowerFault(5) 7: pmapmdReceiverLocalFault(6) 8: pcsReceiveLocalFault(7) 9: phyXSReceiveLocalFault(8) 10: laserBiasCurrentFault(9) 11: laserTemperatureFault(10) 12: laserOutputPowerFault(11) 13: txFault(12) 14: pmapmdTransmitterLocalFault(13) 15: pcsTransmitLocalFault(14) 16: phyXSTransmitLocalFault(15) 17: rxLossOfSignal(16) 18: tecError(17) 19: wavelengthUnlocked(18) 20: txIsNotReadyDueToTuning(19)	N/A
VendorOUI	Vendor OUI of the interface	N/A	String. Length: 0 to 255 characters.	N/A
RevisionNumber	Revision number of the	N/A	String. Length: 0 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			
Frequency	Frequency(hundredths of THz)	N/A	Integer.	N/A
ActiveITUChannel	Index of the current ITU channel	N/A	Unsigned integer. Value range:1 to 4294967295.	N/A
CurWaveErr	Current wave length error(thousandths of nm)	N/A	Integer.	N/A
WaveErrHiAlarm	High wave length error alarm threshold (thousandths of nm)	N/A	Integer.	N/A
WaveErrLoAlarm	Low wave length error alarm threshold (thousandths of nm)	N/A	Integer.	N/A
CurFreqErr	Current frequency error(tenths of GHz)	N/A	Integer.	N/A
FreqErrHiAlarm	High frequency error alarm threshold (tenths of GHz)	N/A	Integer.	N/A
FreqErrLoAlarm	Low frequency error alarm threshold (tenths of GHz)	N/A	Integer.	N/A

Device/TransceiversChannels

This table provides statistics for transceiver modules with multiple channels.

XML structure

```

<Device>
  <TransceiversChannels>
    <Interface>
      <IfIndex></IfIndex>
      <ChannelIndex></ChannelIndex>

```

```

    <ChannelCurTXPower></ChannelCurTXPower>
    <ChannelCurRXPower></ChannelCurRXPower>
    <ChannelTemperature></ChannelTemperature>
    <ChannelBiasCurrent></ChannelBiasCurrent>
  </Interface>
</TransceiversChannels>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	TransceiversChannels
Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for interfaces that support a transceiver module

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column is available in some versions. For more information, see the XSD document for your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ChannelIndex	Optical channel index	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
ChannelCurTXPower	Current transmitted optical power of the channel (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
ChannelCurRXPower	Current received optical power of the channel (hundredths of dBm)	N/A	Integer.	2147483647 means the device doesn't support this feature.
ChannelTemperature	Temperature of the channel (°C)	N/A	Integer.	Some versions support current temperature. For relevant information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				the XSD document of your product.2147483647 means the device doesn't support this feature.
ChannelBias Current	Current of the channel (one hundredth of an mA)	N/A	Integer.	2147483647 means the device doesn't support this feature.

Device/TransceiversITUChannels

This table contains information about ITU channels supported on the transceiver that is connected to this interface.

XML structure

```

<Device>
  <TransceiversITUChannels>
    <Interface>
      <IfIndex></IfIndex>
      <ITUChannelIndex></ITUChannelIndex>
      <ITUChannelFrequency></ITUChannelFrequency>
      <ITUChannelWaveLength></ITUChannelWaveLength>
    </Interface>
  </TransceiversITUChannels>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	TransceiversITUChannels
Table type	Multi-instance table
Row name	Interface
Restrictions	Available only for ITU channels supported on the transceiver that is connected to this interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	index			
ITUChannelIndex	The index of the specified ITU channel	Index	Unsigned integer. Value range:1 to 4294967295.	N/A
ITUChannelFrequency	The frequency of the specified ITU channel (hundredths of THz)	N/A	Integer.	N/A
ITUChannelWaveLength	The wave length of the specified ITU channel (thousandths of nm)	N/A	Integer.	N/A

Device/CPU

This table contains usage information about the logical CPUs.

XML structure

```

<Device>
  <CPUs>
    <CPU>
      <PhysicalIndex></PhysicalIndex>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CPUUsage></CPUUsage>
    </CPU>
  </CPUs>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions
PhysicalIndex	Entity index	Index	Unsigned integer.
Chassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.

Device/SummerTime

This table contains summer-time information.

XML structure

```
<Device>
  <SummerTime>
    <Name></Name>
    <AddTime></AddTime>
    <DateBased>
      <BeginMonth></BeginMonth>
      <BeginDay></BeginDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndDay></EndDay>
      <EndHour></EndHour>
      <EndMinute></EndMinute>
      <EndSecond></EndSecond>
    </DateBased>
    <WeekBased>
      <BeginMonth></BeginMonth>
      <BeginWeek></BeginWeek>
      <BeginWeekDay></BeginWeekDay>
      <BeginHour></BeginHour>
      <BeginMinute></BeginMinute>
      <BeginSecond></BeginSecond>
      <EndMonth></EndMonth>
      <EndWeek></EndWeek>
    </WeekBased>
  </SummerTime>
</Device>
```

```

    <EndWeekDay></EndWeekDay>
    <EndHour></EndHour>
    <EndMinute></EndMinute>
    <EndSecond></EndSecond>
  </WeekBased>
</SummerTime>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	SummerTime
Table type	Single-instance table
Row name	N/A
Restrictions	Group DateBased and WeekBased are two configuration ways. Only one way can take effect at the same time.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name for the daylight saving time.	N/A	String. Length: 1 to 32 characters.	N/A
AddTime	The time to be added to the standard time.	N/A	String. Formats: HH:MM:SS	Value ranges: HH—0 to 23. MM—0 to 59. SS—0 to 59.
DateBased	Daylight saving time configuration based on date.	Data Structure	Members include: - BeginMonth - BeginDay - BeginHour - BeginMinute - BeginSecond - EndMonth - EndDay - EndHour - EndMinute - EndSecond	N/A
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginDay	Begin day.	N/A	Unsigned integer. Value range: 1 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BeginHour	Begin hour.	N/A	Unsigned integer. • Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndDay	End day.	N/A	Unsigned integer. Value range: 1 to 31.	N/A
EndHour	End hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
WeekBased	Daylight saving time configuration based on week.	Data Structure	Members include: • BeginMonth • BeginWeek • BeginWeekDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndWeek • EndWeekDay • EndHour • EndMinute • EndSecond	N/A
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginWeek	Begin week of the month.	N/A	Enumeration: • 1—The first week • 2—The second week • 3—The third week • 4—The fourth week • 5—The fifth week • 6—The last week	Non-existent weeks of the month are treated as the last week.
BeginWeekDay	Begin day of week.	N/A	Enumeration: • 0—Sunday • 1—Monday • 2—Tuesday • 3—Wednesday • 4—Thursday	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			5—Friday 6—Saturday	
BeginHour	Begin hour.	N/A	Unsigned integer. Value range: 0 to 23.	N/A
BeginMinute	Begin minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
BeginSecond	Begin second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndMonth	End month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
EndWeek	End week of the month.	N/A	Enumeration: 1—The first week 2—The second week 3—The third week 4—The fourth week 5—The fifth week 6—The last week	Non-existent weeks of the month are treated as the last week.
EndWeekDay	End day of week.	N/A	Enumeration: 0—Sunday 1—Monday 2—Tuesday 3—Wednesday 4—Thursday 5—Friday 6—Saturday	N/A
EndHour	End hour .	N/A	Unsigned integer. Value range: 0 to 23.	N/A
EndMinute	End minute.	N/A	Unsigned integer. Value range: 0 to 59.	N/A
EndSecond	End second.	N/A	Unsigned integer. Value range: 0 to 59.	N/A

Device/Boards

This table contains board information.

XML structure

```

<Device>
  <Boards>
    <Board>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
      </DeviceNode>
    </Board>
  </Boards>
</Device>

```

```

    <CPUID></CPUID>
  </DeviceNode>
  <PhysicalIndex></PhysicalIndex>
  <Status></Status>
  <Role></Role>
</Board>
</Boards>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	Boards
Table type	Multi-instance table
Row name	Board
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: - Chassis - Slot - CPUID	N/A
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	0 represent main CPU of current board.
PhysicalIndex	Entity index.	N/A	Unsigned integer.	The index is 0 when board is absent.
Status	Status of the device node.	N/A	Enumeration: 1—Absent 2—Normal 3—Fault	N/A
Role	Role of the device node.	N/A	Enumeration: 1—Unknown 2—ActiveMPU 3—StandbyMPU 4—LPU	Role is Unknown when status is Absent or Fault.

Device/Blades

This table contains blade information.

XML structure

```
<Device>
  <Blades>
    <Blade>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Model></Model>
    </Blade>
  </Blades>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	Blades
Table type	Multi-instance table
Row name	blade
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Position of the device Node.	Data structure	Members include: - Chassis - Slot - CPUID
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
Model	Device model of blade board.	N/A	String. Length: 1 to 63 characters.

Device/PEXes

This table contains PEX board information.

XML structure

```
<Device>
  <PEXes>
    <PEX>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Model></Model>
    </PEX>
  </PEXes>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	PEXes
Table type	Multi-instance table
Row name	PEX
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
DeviceNode	Position of the device Node.	Data structure	Members include: - Chassis - Slot - CPUID
Chassis	ID of the member where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
Model	Device model of PEX board.	N/A	String. Length: 1 to 63 characters.

Device/BladeCapabilities

This table contains capabilities of blade board.

XML structure

```
<Device>
  <BladeCapabilities>
    <Blade>
      <Model></Model>
    </Blade>
  </BladeCapabilities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	BladeCapabilities
Table type	Multi-instance table
Row name	Blade
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Model	Device model of blade board.	Index	String. Length: 1 to 63 characters.

Device/PEXCapabilities

This table contains capabilities of PEX board.

XML structure

```
<Device>
  <PEXCapabilities>
    <PEX>
```

```

    <Model></Model>
  </PEX>
</PEXCapabilities>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	PEXCapabilities
Table type	Multi-instance table
Row name	PEX
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Model	Device model of PEX board.	Index	String. Length: 1 to 63 characters.

Contents

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ama-register-to-controller event	1
XML structure for event subscription	1
XML structure for event report	1
ama-report-heart-beat-to-controller event	2
XML structure for event subscription	2
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XML structure for event report	6
ama-report-address-got-to-controller-ipv6 event	7
XML structure for event subscription	7
XML structure for event report	7
ama-report-address-recycled-to-controller-ipv4 event	8
XML structure for event subscription	8
XML structure for event report	9
ama-report-address-recycled-to-controller-ipv6 event	10
XML structure for event subscription	10
XML structure for event report	10
ama-report-lack-of-address-block event	11
XML structure for event subscription	11
XML structure for event report	12

address-pool event stream

ama-register-to-controller event

This event is used to notify controller that AMA registered successfully.

XML structure for event subscription

```
<ama-register-to-controller>
</ama-register-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-register-to-controller
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-register-to-controller>
  <device-id></device-id>
</ama-register-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-register-to-controller
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
  </ama-register-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	AMA device id assigned	Unsigned Integer 32	

Column name	Column description	Data type and restrictions	Remarks
	by app	Value range: 0 to 4294967295.	

ama-report-heart-beat-to-controller event

This event is used to report heart beat to controller for AMA

Controller uses this to detect the inactive of AMA.

The period of heart beat is according to the configuration: flexbng-device-info /controller-send-configuration-to-ama/ device-keep-alive-interval.

.

XML structure for event subscription

```
<ama-report-heart-beat-to-controller>
</ama-report-heart-beat-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-heart-beat-to-controller
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-heart-beat-to-controller>
  <ama-id>5</ama-id>
</ama-report-heart-beat-to-controller>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-heart-beat-to-controller
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <ama-id>5</ama-id>
  </ama-report-heart-beat-to-controller>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
ama-id	AMA device id assigned by app	Unsigned Integer 32. Value range: 0 to 4294967295.	

address-pool-status event

This event is used to report address pool status.

XML structure for event subscription

```
<ama-register-to-controller >
```

```
</ama-register-to-controller>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```

```
    <stream>address_pool</stream>
```

```
  </create-subscription>
```

```
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	address-pool-status
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<address-pool-status>
```

```
  <device-id></device-id>
```

```
  <time></time>
```

```
  <address-pool>
```

```
    <address-pool-name></address-pool-name>
```

```
    <address-pool-id></address-pool-id>
```

```
    <domain-name></domain-name>
```

```
    <address-pool-entries>
```

```
      <ipv4-address-block>
```

```
        <ipv4-address-block-name></ipv4-address-block-name>
```

```
        <ipv4-address-block-id></ipv4-address-block-id>
```

```
        <average-address-usage-ratio></average-address-usage-ratio>
```

```
      </ipv4-address-block>
```

```
      <ipv6-address-block>
```

```

        <ipv6-address-block-name></ipv6-address-block-name>
        <ipv6-address-block-id></ipv6-address-block-id>
        <average-address-usage-ratio></average-address-usage-ratio>
    </ipv6-address-block>
</address-pool-entries>
</address-pool>
</address-pool-status>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <eventTime>2016-07-21T09:10:51</eventTime>
    <address-pool-status
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
        <device-id>3</device-id>
        <time>1478260941</time>
        <address-pool>
            <address-pool-name>pool1</address-pool-name>
            <address-pool-id>1</address-pool-id>
            <domain-name>pppoe</domain-name>
            <address-pool-entries>
                <ipv4-address-block>
                    <ipv4-address-block-name>network1</ipv4-address-block-name>
                    <ipv4-address-block-id>1</ipv4-address-block-id>
                    <average-address-usage-ratio>1</average-address-usage-ratio>
                </ipv4-address-block>
            </address-pool-entries>
        </address-pool>
        <address-pool>
            <address-pool-name>pool2</address-pool-name>
            <address-pool-id>2</address-pool-id>
            <domain-name>pppoe</domain-name>
            <address-pool-entries>
                <ipv6-address-block>
                    <ipv6-address-block-name>network1</ipv6-address-block-name>
                    <ipv6-address-block-id>1</ipv6-address-block-id>
                    <average-address-usage-ratio>1</average-address-usage-ratio>
                </ipv6-address-block>
            </address-pool-entries>
        </address-pool>
    </address-pool-status>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	AMA device id assigned by app	Unsigned Integer 32. Value range: 0 to 4294967295.	

Column name	Column description	Data type and restrictions	Remarks
time	Timestamp of the notification	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Name of the address pool	String String Length:1 to 63	
address-pool-id	Pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
domain-name	Domain name	String String Length:1 to 63	
ipv4-address-block-name	Block name	String String Length:1 to 63	
ipv4-address-block-id	Block ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
average-address-usage-ratio	Usage ratio of address pool	Unsigned Integer 32. Value range: 0 to 4294967295.	
Ipv6-address-block-name	IPv6 address block name	String String Length:1 to 63	
Ipv6-address-block-id	IPv6 address block ID	Unsigned Integer 32. Value range: 0 to 4294967295.	

ama-report-address-got-to-controller-ipv4 event

This event is used to notify controller the distribution result of ipv4 address pools.

XML structure for event subscription

```
<ama-report-address-got-to-controller-ipv4>
</ama-report-address-got-to-controller-ipv4>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-got-to-controller-ipv4
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras

Item	Description
Support for extended query	no

XML structure for event report

```
<ama-report-address-got-to-controller-ipv4>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-got-to-controller-ipv4>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-got-to-controller-ipv4
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-got-to-controller-ipv4>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
address-pool-id	Address pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Address pool name	OctectString String Length:1 to 63	
address-block-id	Block ID	Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	

Column name	Column description	Data type and restrictions	Remarks
result	Distribution result of ipv4 address pools	Enumeration: • success • fail	

ama-report-address-got-to-controller-ipv6 event

This event is used to notify controller the distribution result of ipv6 address pools.

XML structure for event subscription

```
<ama-report-address-got-to-controller-ipv6>
</ama-report-address-got-to-controller-ipv6>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-got-to-controller-ipv6
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-address-got-to-controller-ipv6>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-got-to-controller-ipv6>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```

```

<ama-report-address-got-to-controller-ipv6
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
  <device-id>5</device-id>
  <domain-name>ppoe</domain-name>
  <address-pool-id>2</address-pool-id>
  <address-pool-name>pool2</address-pool-name>
  <address-block-id>2</address-block-id>
  <address-block-name>network2</address-block-name>
  <result>sucess</result>
</ama-report-address-got-to-controller-ipv6>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
address-pool-id	Address pool ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
address-pool-name	Address pool name	OctectString String Length:1 to 63	
address-block-id	Block ID	Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Distribution result of ipv6 address pools	Enumeration: • success • fail	

ama-report-address-recycled-to-controller-ipv4 event

This event is used to notify controller the recycled result of ipv4 address pools.

XML structure for event subscription

```

<ama-report-address-recycled-to-controller-ipv4>
</ama-report-address-recycled-to-controller-ipv4>

```

Example:

```

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>

```



```

    </create-subscription>
</rpc>

```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-recycled-to-controller-ipv4
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```

<ama-report-address-recycled-to-controller-ipv4>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
  <address-block-name></address-block-name>
  <result></result>
</ama-report-address-recycled-to-controller-ipv4>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-recycled-to-controller-ipv4
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-recycled-to-controller-ipv4>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32	
domain-name	Domain name	OctectString	
address-pool-id	Pool ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-pool-	Pool name	OctectString	

Column name	Column description	Data type and restrictions	Remarks
name		String Length:1 to 63	
address-block-id	Block ID	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Recycled result of ipv4 address pools	Enumeration: • success • fail	

ama-report-address-recycled-to-controller-ipv6 event

This event is used to notify controller the recycled result of ipv6 address pools.

XML structure for event subscription

```
<ama-report-address-recycled-to-controller-ipv6>
</ama-report-address-recycled-to-controller-ipv6>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-address-recycled-to-controller-ipv6
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```
<ama-report-address-recycled-to-controller-ipv6>
  <device-id></device-id>
  <domain-name></domain-name>
  <address-pool-id></address-pool-id>
  <address-pool-name></address-pool-name>
  <address-block-id></address-block-id>
```

```

    <address-block-name></address-block-name>
    <result></result>
</ama-report-address-recycled-to-controller-ipv6>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-address-recycled-to-controller-ipv6
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <address-pool-id>2</address-pool-id>
    <address-pool-name>pool2</address-pool-name>
    <address-block-id>2</address-block-id>
    <address-block-name>network2</address-block-name>
    <result>sucess</result>
  </ama-report-address-recycled-to-controller-ipv6>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device id	Unsigned Integer 32	
domain-name	Domain name	OctectString	
address-pool-id	Pool id	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-pool-name	Pool name	OctectString String Length:1 to 63	
address-block-id	Block id	Unsigned Integer 32 Value range: 0 to 4294967295.	
address-block-name	Block name	OctectString String Length:1 to 63	
result	Recycled result of ipv6 address pools	Enumeration: • success • fail	

ama-report-lack-of-address-block event

This event is used to notify controller lack of IP address. When controller receives this notification, it distributes new address pools to device.

XML structure for event subscription

```

<ama-report-lack-of-address-block>
</ama-report-lack-of-address-block>

```

Example:

```

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>address_pool</stream>
  </create-subscription>
</rpc>

```

Table description

Item	Description
Event stream name	address-pool
Event name	ama-report-lack-of-address-block
Event namespace	urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras
Support for extended query	no

XML structure for event report

```

<ama-report-lack-of-address-block>
  <device-id></device-id>
  <domain-name></domain-name>
  <protocol-type></protocol-type>
</ama-report-lack-of-address-block>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ama-report-lack-of-address-block
xmlns="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
    <device-id>5</device-id>
    <domain-name>ppoe</domain-name>
    <protocol-type>ipv4</protocol-type>
  </ama-report-lack-of-address-block>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
device-id	Device ID	Unsigned Integer 32. Value range: 0 to 4294967295.	
domain-name	Domain name	OctectString String Length:1 to 63	
Protocol-type	Protocl type,ipv4/ipv6	Enumeration: 1—ipv4. 0—ipv6.	

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XML structure	2
Table description.....	2
Columns	2
Example	3

flexbng-device-info

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras".

flexbng-device-info/controller-netconf-registration

This table contains flexbng device registration information.

XML structure

```
<flexbng-device-info>
  <controller-netconf-registration>
    <device-id></device-id>
  </controller-netconf-registration>
</flexbng-device-info>
```

Table description

Item	Description
Feature name	flexbng-device-info
Table name	controller-netconf-registration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
device-id	AMA device id assigned by app	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.

Example

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:controller-netconf-registration
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
```

```

        <v:device-id>5</v:device-id>
    </v:controller-netconf-registration>
</config>
</edit-config>
</rpc>

```

flexbng-device-info/controller-send-configuration-to-ama

This table is used to send configuration to ama for controller.

XML structure

```

<flexbng-device-info >
  <controller-send-configuration-to-ama>
    <device-keep-alive-interval></device-keep-alive-interval>
    <ipv4-address-pool-usage-threshold></ipv4-address-pool-usage-threshold>
    <ipv6-address-pool-usage-threshold></ipv6-address-pool-usage-threshold>
    <state-update-interval></state-update-interval>
    <device-sampling-interval></device-sampling-interval>
  </controller-send-configuration-to-ama>
</flexbng-device-info>

```

Table description

Item	Description
Feature name	flexbng-device-info
Table name	controller-send-configuration-to-ama
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
device-keep-alive-interval	Heartbeat interval of confd service	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.
ipv4-address-pool-usage-threshold	IPv4 threshold of pool block usage ratio	N/A	DOUBLE. Value range: 0 to 100.
ipv6-address-pool-usage-threshold	IPv6 threshold of pool block usage ratio	N/A	DOUBLE. Value range: 0 to 100.
state-update-interv	Report interval for pool	N/A	Unsigned Integer 32.

al	block status		Value range: 0 to 4294967295.
device-sampling-interval	Sampling interval for pool block usage ratio	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.

Example

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:controller-send-configuration-to-ama
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool:flexbng:vbras">
        <v:device-keep-alive-interval>3</v:device-keep-alive-interval>
<v:ipv4-address-pool-usage-threshold>0.8</v:ipv4-address-pool-usage-threshold>
<v:ipv6-address-pool-usage-threshold>0.8</v:ipv6-address-pool-usage-threshold>
        <v:state-update-interval>5</v:state-update-interval>
        <v:device-sampling-interval>0</v:device-sampling-interval>
      </v:controller-send-configuration-to-ama>
    </config>
  </edit-config>
</rpc>
```


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Table description	2
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ietf-address-pool/address-pools/address-pool/ipv4-address-block	3
XML structure	3
Table description	3
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ietf-address-pool/address-pools/address-pool/ipv6-address-block	4
XML structure	4
Table description	4
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Example	5

ietf-address-pool

The namespace of flexbng-device-info is "urn:ietf:params:xml:ns:yang:ietf-address-pool".

The Example on the end of this module sets an instance that the module can't be under top node. ietf-address-pool/address-pools.

This table contains address pool configuration information.

XML structure

```
<ietf-address-pool>
  <address-pools>
    <device-id></device-id>
    <address-pool>
      <address-pool-name></address-pool-name>
      <address-pool-id></address-pool-id>
      <domain-name></domain-name>
      <ipv4-usergateway></ipv4-usergateway>
      <ipv6-usergateway></ipv6-usergateway>
      <gwnetmask></gwnetmask>
      <leasing-time></leasing-time>
      <primarydns></primarydns>
      <secondarydns></secondarydns>
      <address-pool-entries>
        <ipv4-address-block>
          <pool-name></pool-name>
          <ipv4-address-block-name></ipv4-address-block-name>
          <ipv4-address-block-id></ipv4-address-block-id>
          <ipv4-prefix></ipv4-prefix>
          <ipv4-prefix-length></ipv4-prefix-length>
          <time></time>
        </ipv4-address-block>
        <ipv6-address-block>
          <pool-name></pool-name>
          <ipv6-address-block-name></ipv6-address-block-name>
          <ipv6-address-block-id></ipv6-address-block-id>
          <ipv6-prefix></ipv6-prefix>
          <ipv6-prefix-length></ipv6-prefix-length>
          <time></time>
        </ipv6-address-block>
      </address-pool-entries>
    </address-pool>
  </address-pools>
</ietf-address-pool>
```

Table description

Item	Description
Feature name	ietf-address-pool
Table name	address-pools
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
device-id	AMA device id assigned by app	N/A	Unsigned Integer 32. Value range:0 to 4294967295.
address-pool	Information of the address pool	Sublist	The details of the sublist refer to address-pool table.

ietf-address-pool/address-pools/address-pool

This table contains address pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	ietf-address-pool
Table name	address-pool
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
address-pool-name	Name of address pool	index	String Length: 1 to 63 characters
address-pool-id	Address pool ID	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.
domain-name	Domain name	N/A	String Length:1 to 63 characters
ipv4-usergateway	Used for IPv4 user addressing	N/A	IPv4 address
ipv6-usergateway	Used for IPv6 user addressing	N/A	IPv6 address
gwnetmask	Netmask for user gateway	N/A	Unsigned Integer 32. Value range: 1 to 128
leasing-time	Leasing time with default 3 days	N/A	Unsigned Integer 32. Value range: 0 to 4294967295. The column can't be changed.Its returned value is always 3 ,no matter which number it is configured for.
primarydns	Primary DNS information	N/A	IP address
secondarydns	Secondary DNS information	N/A	IP address
ipv4-address-block	Information of the ipv4 address block	Sublist	The details of the sublist refer to ipv4-address-block table.
ipv6-address-block	Information of the ipv6 address block	Sublist	The details of the sublist refer to ipv6-address-block table.

ietf-address-pool/address-pools/address-pool/ipv4-address-block

This table contains address pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	ietf-address-pool
Table name	ipv4-address-block
Table type	Multi-instance table

Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-pool-name	Name of address pool	index	String Length:1 to 63 characters	Index of present table
ipv4-address-block-name	Name of IPv4 address block	index	String Length:1 to 63 characters	N/A
ipv4-address-block-id	ID of IPv4 address block	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.	N/A
ipv4-prefix	IPv4 address prefix	N/A	Ipv4Address	N/A
ipv4-prefix-length	IPv4 address prefix length	N/A	Unsigned Integer 32. Value range: 1 to 30.	N/A
time	Address block allocation time	N/A	Unsigned Integer 32. Value range: 0 to 4294967295	For table: ipv4-address-block

ietf-address-pool/address-pools/address-pool/ipv6-address-block

This table contains address-pool configuration information.

XML structure

Please refer to the XML Structure of ietf-address-pool/address-pools.

Table description

Item	Description
Feature name	ietf-address-pool
Table name	Ipv6-address-block
Table type	Multi-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address-pool-name	Name of address pool	index	String Length: 1 to 63 characters	Index of present table
ipv6-address-block-name	Name of IPv6 address block	index	String Length: 1 to 63 characters	N/A
ipv6-address-block-id	ID of IPv6 address block	N/A	Unsigned Integer 32. Value range: 0 to 4294967295.	N/A
ipv6-prefix	IPv6 address prefix	N/A	Ipv6Address	N/A
ipv6-prefix-length	IPv6 address prefix length	N/A	Unsigned Integer 32. Value range: 1 to 128.	N/A
time	Address block allocation time	N/A	Unsigned Integer 32. Value range: 0 to 4294967295	For table: ipv6-address-block

Example

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:address-pools xc:operation="merge"
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool">
        <v:device-id>3</v:device-id>
        <v:address-pool>
          <v:address-pool-name>pool4</v:address-pool-name>
          <v:address-pool-id>104</v:address-pool-id>
          <v:domain-name>pppoe</v:domain-name>
          <v:ipv4-usergateway>10.2.1.1</v:ipv4-usergateway>
          <v:gwnetmask>24</v:gwnetmask>
          <v:address-pool-entries>
            <v:ipv4-address-block>
              <v:ipv4-address-block-name>network-4</v:ipv4-address-block-name>
              <v:ipv4-address-block-id>40</v:ipv4-address-block-id>
              <v:ipv4-prefix>10.2.1.1</v:ipv4-prefix>
              <v:ipv4-prefix-length>24</v:ipv4-prefix-length>
              <v:time>3</v:time>
            </v:ipv4-address-block>
          </v:address-pool-entries>
        </v:address-pool>
      </v:address-pools>
    </config>
  </edit-config>
</rpc>
```

```

</rpc>

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <edit-config>
    <target>
      <running/>
    </target>
    <config xmlns:xc="urn:ietf:params:xml:ns:netconf:base:1.0">
      <v:address-pools xc:operation="merge"
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool">
        <v:device-id>3</v:device-id>
        <v:address-pool>
          <v:address-pool-name>pool1</v:address-pool-name>
          <v:address-pool-id>101</v:address-pool-id>
          <v:domain-name>pppoe</v:domain-name>
          <v:ipv6-usergateway>10::3</v:ipv6-usergateway>
          <v:gwnetmask>64</v:gwnetmask>
          <v:primarydns>1::1</v:primarydns>
          <v:secondarydns>1::2</v:secondarydns>
          <v:address-pool-entries>
            <v:ipv6-address-block>
              <v:ipv6-address-block-name>network-0</v:ipv6-address-block-name>
              <v:ipv6-address-block-id>10</v:ipv6-address-block-id>
              <v:ipv6-prefix>10::1</v:ipv6-prefix>
              <v:ipv6-prefix-length>64</v:ipv6-prefix-length>
              <v:time>3</v:time>
            </v:ipv6-address-block>
          </v:address-pool-entries>
        </v:address-pool>
      </v:address-pools>
    </config>
  </edit-config>
</rpc>

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get>
    <filter type="subtree">
      <v:address-pools
xmlns:v="urn:ietf:params:xml:ns:yang:ietf-address-pool"></v:address-pools>
    </filter>
  </get>
</rpc>

```

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XML structure	3
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Columns	3

DHCP

DHCP/DHCPRelayClearUserInfoByIfIndex

This table is used to clear DHCP relay entries according to interface index.

XML structure

```
<DHCP>
  <DHCPRelayClearUserInfoByIfIndex>
    <RelayClearUserInfo>
      <IfIndex></IfIndex>
    </RelayClearUserInfo>
  </DHCPRelayClearUserInfoByIfIndex>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayClearUserInfoByIfIndex
Table type	Multi-instance table
Row name	RelayClearUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	If the length of the column is set to 0, all entries will be cleared.

DHCP/DHCPServerClearIpInUseByPool

This table is used to clear binding information about assigned IP addresses according to pool name.

XML structure

```
<DHCP>
  <DHCPServerClearIpInUseByPool>
    <ServerClearIpInUse>
      <PoolName></PoolName>
    </ServerClearIpInUse>
  </DHCPServerClearIpInUseByPool>
</DHCP>
```

```

        </ServerClearIpInUse>
    </DHCPServerClearIpInUseByPool>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClearIpInUseByPool
Table type	Multi-instance table
Row name	ServerClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	DHCP address pool name	Index	String, case insensitive. Length: 1 to 63 characters.

DHCP/DHCPServerClearIpInUse

This table is used to clear binding information about assigned IP addresses.

XML structure

```

<DHCP>
  <DHCPServerClearIpInUse>
    <ServerClearIpInUse>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
    </ServerClearIpInUse>
  </DHCPServerClearIpInUse>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerClearIpInUse
Table type	Multi-instance table
Row name	ServerClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A

DHCP/DHCPRelayClearUserInfo

This table is used to clear DHCP relay entries.

XML structure

```
<DHCP>
  <DHCPRelayClearUserInfo>
    <RelayClearUserInfo>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
    </RelayClearUserInfo>
  </DHCPRelayClearUserInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayClearUserInfo
Table type	Multi-instance table
Row name	RelayClearUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	0 means public network
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A

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DHCP

DHCP/DHCPServerIpPool

This table contains DHCP server IP pool information.

XML structure

```
<DHCP>
  <DHCPServerIpPool>
    <IpPool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <NetworkIpv4Address></NetworkIpv4Address>
      <NetworkIpv4Mask></NetworkIpv4Mask>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <LeaseDay></LeaseDay>
      <LeaseHour></LeaseHour>
      <LeaseMinute></LeaseMinute>
      <LeaseSecond></LeaseSecond>
      <LeaseUnlimit></LeaseUnlimit>
      <DomainName></DomainName>
      <GatewayIpv4Address></GatewayIpv4Address>
      <DNSIpv4Address></DNSIpv4Address>
      <NetbiosType></NetbiosType>
      <NbnsIpv4Address></NbnsIpv4Address>
      <SubnetAlloc></SubnetAlloc>
    </IpPool>
  </DHCPServerIpPool>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpPool
Table type	Multi-instance table
Row name	IpPool
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
PoolName	DHCP address pool name	N/A	String, case insensitive. Length: 1 to 63 characters.	Required when create a new row, can not be modified.
NetworkIpv4Address	Primary subnet for dynamic allocation	N/A	String, dotted decimal notation.	Modifying or removing the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	The address range specified must be within the subnet. The addresses out of the address range cannot be assigned. It must be configured together with the EndIpv4Address column.
EndIpv4Address	End IP address of IP address range	N/A	String, dotted decimal notation.	It must be configured together with the

Column name	Column description	Column type	Data type and restrictions	Remarks
	in a DHCP address pool for dynamic allocation			StartIpv4Address column.
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365. Default: 1.	LeaseDay, LeaseHour, LeaseMinute, LeaseSecond must be configured together. Can not be configured together with LeaseUnlimit.
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23. Default: 0.	N/A
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59. Default: 0.	N/A
LeaseUnlimit	Whether the function of unlimited lease duration is specified.	N/A	Boolean: • true • false(default)	Can not be configured together with LeaseDay, LeaseHour, LeaseMinute, LeaseSecond.
DomainName	Domain name	N/A	String, case sensitive. Length: 1 to 50 characters.	N/A
GatewayIpv4Address	Gateway addresses	N/A	String, case insensitive. Length: 1 to 1024 characters.	You can specify a space-separated list of up to 64 addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
DNSIpv4Address	DNS server addresses	N/A	String, case insensitive. Length: 1 to 127	You can specify a space-separated list of up to eight addresses.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	Example: 1.1.1.1 2.2.2.2 3.3.3.3.
NetbiosType	NetBIOS node type	N/A	Enumeration: • 1—b-node. • 2—p-node. • 3—m-node. • 4—h-node.	b-node: Specifies the broadcast node. A b-node client sends the destination name in a broadcast message to get the name-to-IP mapping from a server. h-node: Specifies the hybrid node. An h-node client unicasts the destination name to a WINS server. If it does not receive a response, the h-node client broadcasts the destination name to get the mapping from a server. m-node: Specifies the mixed node. An m-node client broadcasts the destination name. If it does not receive a response, the m-node client unicasts the destination name to the WINS server to get the mapping. p-node: Specifies the peer-to-peer node. A p-node client sends the destination name in a unicast message to get the mapping from the WINS server.
NbnsIpv4Address	WINS server addresses	N/A	String, case insensitive. Length: 1 to 127	You can specify a space-separated list of

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
SubnetAlloc	The flag of dynamic pool	N/A	Enumeration: 0—normal pool (default). 1—dynamic pool.	Address pool type does not support change again. configuration StartIpv4Address and EndIpv4Address is not supported when the pool type id dynamic.

DHCP/DHCPServerPoolStatic

This table contains static binding information of DHCP server IP pool.

XML structure

```

<DHCP>
  <DHCPServerPoolStatic>
    <IpPoolStatic>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <CID></CID>
      <HAddress></HAddress>
      <HType></HType>
    </IpPoolStatic>
  </DHCPServerPoolStatic>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatic
Table type	Multi-instance table

Row name	IpPoolStatic
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	The specified PoolIndex must already exist.
Ipv4Address	IP address of the static binding	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IP address mask of the static binding	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
CID	Client ID of the static binding	N/A	String, case insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct. Can not be configured together with HAddress, HType column, but one of the CID and HAddress is required. Can not modify bindings. To change the binding for a DHCP

Column name	Column description	Column type	Data type and restrictions	Remarks
				client, you must delete the existing binding first and create a new binding.
HAddress	Client hardware address of the static binding	N/A	String, case insensitive. Length: 4 to 79 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address type	N/A	Enumeration: 1—Ethernet (default). 2—TokenRing.	It must be configured together with the HAddress column.

DHCP/DHCPConfig

This table contains DHCP server and DHCP relay configuration information.

XML structure

```

<DHCP>
  <DHCPConfig>
    <DHCPEnable></DHCPEnable>
    <ServerConfig>
      <AlwaysBroadcast></AlwaysBroadcast>
      <IgnoreBOOTP></IgnoreBOOTP>
      <BOOTPReplyRFC1048></BOOTPReplyRFC1048>
      <Opt82Enabled></Opt82Enabled>
      <PingNumber></PingNumber>
      <PingTimeout></PingTimeout>
    </ServerConfig>
  </DHCPConfig>
</DHCP>

```

```

</ServerConfig>
<RelayConfig>
  <UserInfoRecord></UserInfoRecord>
  <UserInfoRefresh></UserInfoRefresh>
  <UserInfoFlushTime></UserInfoFlushTime>
</RelayConfig>
</DHCPConfig>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPEnable	Whether the function of DHCP is enabled.	N/A	Boolean: true false(default)	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: - AlwaysBroadcastAlert - IgnoreBOOTP - BOOTPReplyRFC1048 - Opt82Enabled - PingNumber - PingTimeout	N/A
AlwaysBroadcast	Whether enable the DHCP server	N/A	Boolean: true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to broadcast all responses or not.		false(default)	
IgnoreBOOTP	Whether ignore BOOTP requests or not.	N/A	Boolean: true false (default)	N/A
BOOTPReplyRFC1048	Whether enable the DHCP server to send BOOTP responses in RFC 1048 format when it receives RFC 1048-incompliant BOOTP requests for statically bound addresses or not.	N/A	Boolean: true false(default)	N/A
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: true (default) false	N/A
PingNumber	Maximum number of ping packets	N/A	Unsigned integer. Value range: 0 to 10. Default: 1.	To disable the address conflict detection, set the value to 0.
PingTimeout	Ping response timeout time on the DHCP server	N/A	Unsigned integer. Value range: 0 to 10000 milliseconds. Default: 500 milliseconds.	To disable the ping operation for address conflict detection, set the value to 0 milliseconds.
RelayConfig	The configuration of DHCP relay	Data structure	Members include: - UserInfoRecord - UserInfoRefresh - UserInfoFlushTime	N/A
UserInfoRecord	Whether the function of recording client	N/A	Boolean: true false(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	information in relay entries is enabled.			
UserInfoRefresh	Whether enable the relay agent to periodically refresh dynamic relay entries or not.	N/A	Boolean: true(default) false	N/A
UserInfoFlushTime	Interval at which the DHCP relay agent periodically refreshes relay entries	N/A	Unsigned integer. Value range: 0 to 120 seconds. Default: 0 seconds.	To automatically calculate the refresh interval, set the value to 0 seconds.

DHCP/DHCPIfMode

This table contains DHCP interface mode information.

XML structure

```

<DHCP>
  <DHCPIfMode>
    <IfMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </IfMode>
  </DHCPIfMode>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfMode
Table type	Multi-instance table
Row name	IfMode

Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Mode	DHCP mode	N/A	Enumeration: • 0—None. • 1—Server (default). • 2—Relay.	N/A

DHCP/DHCPRelaySrvIPv4Address

This table contains DHCP servers on the DHCP relay agent information.

XML structure

```

<DHCP>
  <DHCPRelaySrvIPv4Address>
    <RelaySrvIPv4>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </RelaySrvIPv4>
  </DHCPRelaySrvIPv4Address>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrvIPv4Address
Table type	Multi-instance table
Row name	RelaySrvIPv4
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A

DHCP/DHCPServerPoolOption

This table contains DHCP server IP pool options information.

XML structure

```
<DHCP>
  <DHCPServerPoolOption>
    <IpPoolOption>
```



```

    <PoolIndex></PoolIndex>
    <OptionCode></OptionCode>
    <OptionValueHex></OptionValueHex>
    <OptionValueAscii></OptionValueAscii>
    <OptionValueIpAddresses></OptionValueIpAddresses>
  </IpPoolOption>
</DHCPServerPoolOption>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolOption
Table type	Multi-instance table
Row name	IpPoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	The specified PoolIndex must already exist.
OptionCode	Number of the customized option	Index	Unsigned integer. Value range: 2 to 254.	Excluding 50 through 54, 56, 58, 59, 61, and 82.
OptionValueHex	Hex string as the option content	N/A	String, case insensitive. Length: 2 to 256 characters.	Only one of OptionValueHex, OptionValueAscii and OptionValueIpAddresses can be set. Hex string of even numbers from 2 to 256 as the option content.
OptionValueAscii	ASCII string as	N/A	String, case sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the option content		Length: 1 to 255 characters.	
OptionValueIpAddresses	IP addresses as the option content	N/A	String, case insensitive. Length: 1 to 127 characters.	If there are multiple addresses, separated them by space. Example: 1.1.1.1 2.2.2.2 3.3.3.3.

DHCP/DHCPRelaySrcAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```

<DHCP>
  <DHCPRelaySrcAddress>
    <RelaySrcIPv4>
      <IfIndex></IfIndex>
      <IPv4Address></IPv4Address>
    </RelaySrcIPv4>
  </DHCPRelaySrcAddress>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrcIPv4Address
Table type	Multi-instance table
Row name	RelaySrcIPv4
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Ipv4Address	source IP addresses of the packets sent by the DHCP relay agent	N/A	String, dotted decimal notation.	N/A

DHCP/DHCPRelayInfoEnable

This table contains information about whether the DHCP relay agent support Option 82.

XML structure

```
<DHCP>
  <DHCPRelayInfoEnable>
    <RelayInfoEnable>
      <IfIndex></IfIndex>
      <InfoEnable></InfoEnable>
    </RelayInfoEnable>
  </DHCPRelayInfoEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfoEnable

Table type	Multi-instance table
Row name	RelayInfoEnable
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
InfoEnable	Whether the DHCP relay agent support Option 82.	N/A	Boolean: true false (default)	N/A

DHCP/DHCPServerForbiddenIp

This table contains information about IP addresses excluded from dynamic allocation globally.

XML structure

```

<DHCP>
  <DHCPServerForbiddenIp>
    <ForbiddenIp>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </ForbiddenIp>
  </DHCPServerForbiddenIp>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerForbiddenIp
Table type	Multi-instance table
Row name	ForbiddenIp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
StartIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	EndIpv4Address cannot be lower than the StartIpv4Address.

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DHCP

DHCP/DHCPServerIpPool

This table contains DHCP server IP pool information.

XML structure

```
<DHCP>
  <DHCPServerIpPool>
    <IpPool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <NetworkIpv4Address></NetworkIpv4Address>
      <NetworkIpv4Mask></NetworkIpv4Mask>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <LeaseDay></LeaseDay>
      <LeaseHour></LeaseHour>
      <LeaseMinute></LeaseMinute>
      <LeaseSecond></LeaseSecond>
      <LeaseUnlimit></LeaseUnlimit>
      <DomainName></DomainName>
      <GatewayIpv4Address></GatewayIpv4Address>
      <DNSIpv4Address></DNSIpv4Address>
      <NetbiosType></NetbiosType>
      <NbnsIpv4Address></NbnsIpv4Address>
    </IpPool>
  </DHCPServerIpPool>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpPool
Table type	Multi-instance table
Row name	IpPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	N/A
PoolName	DHCP address pool name	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
NetworkIpv4Address	Primary subnet for dynamic allocation	N/A	String, dotted decimal notation.	N/A
NetworkIpv4Mask	Primary subnet mask for dynamic allocation	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
StartIpv4Address	Start IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of IP address range in a DHCP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
LeaseDay	Days of lease duration	N/A	Unsigned integer. Value range: 0 to 365.	N/A
LeaseHour	Hours of lease duration	N/A	Unsigned integer. Value range: 0 to 23.	N/A
LeaseMinute	Minutes of lease duration	N/A	Unsigned integer. Value range: 0 to 59.	N/A
LeaseSecond	Seconds of lease duration	N/A	Unsigned integer. Value range: 0 to 59.	N/A
LeaseUnlimit	Whether the function of unlimited lease duration is	N/A	Boolean: true false	N/A

Column name	Column description specified.	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case sensitive. Length: 1 to 50 characters.	N/A
GatewayIpv4Address	Gateway addresses	N/A	String, case insensitive. Length: 1 to 1024 characters.	You can specify a space-separated list of up to 64 addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
DNSIpv4Address	DNS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.
NetbiosType	NetBIOS node type	N/A	Enumeration: • 1—b-node. • 2—p-node. • 3—m-node. • 4—h-node.	b-node: Specifies the broadcast node. A b-node client sends the destination name in a broadcast message to get the name-to-IP mapping from a server. h-node: Specifies the hybrid node. An h-node client unicasts the destination name to a WINS server. If it does not receive a response, the h-node client broadcasts the destination name to get the mapping from a server. m-node: Specifies the mixed node. An m-node client broadcasts the destination name. If it does not receive a

Column name	Column description	Column type	Data type and restrictions	Remarks
				response, the m-node client unicasts the destination name to the WINS server to get the mapping. p-node: Specifies the peer-to-peer node. A p-node client sends the destination name in a unicast message to get the mapping from the WINS server.
NbnsIpv4Address	WINS server addresses	N/A	String, case insensitive. Length: 1 to 127 characters.	You can specify a space-separated list of up to eight addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.

DHCP/DHCPStatic

This table contains static binding information of DHCP server IP pool.

XML structure

```

<DHCP>
  <DHCPStatic>
    <IpPoolStatic>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <CID></CID>
      <HAddress></HAddress>
      <HType></HType>
    </IpPoolStatic>
  </DHCPStatic>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatic
Table type	Multi-instance table
Row name	IpPoolStatic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	The specified PoolIndex must already exist.
Ipv4Address	IP address of the static binding	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IP address mask of the static binding	N/A	String, dotted decimal notation.	If no mask is specified, the natural mask will be used.
CID	Client ID of the static binding	N/A	String, case insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HAddress	Client hardware	N/A	String, case insensitive.	The string can contain

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of the static binding		Length: 4 to 79 characters.	only hexadecimal numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address type	N/A	Enumeration: 1—Ethernet. 2—TokenRing.	N/A

DHCP/DHCPServerIpInUse

This table contains binding information about assigned IP addresses.

XML structure

```

<DHCP>
  <DHCPServerIpInUse>
    <IpInUse>
      <PoolIndex></PoolIndex>
      <Ipv4Address></Ipv4Address>
      <CID></CID>
      <HAddress></HAddress>
      <HType></HType>
      <VLANID></VLANID>
      <EndLease></EndLease>
      <Type></Type>
      <IfIndex></IfIndex>
    </IpInUse>
  </DHCPServerIpInUse>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerIpInUse
Table type	Multi-instance table
Row name	IpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	N/A
Ipv4Address	IP address allocated to client	N/A	String, dotted decimal notation.	N/A
CID	Client ID of the static binding	N/A	String, case-insensitive. Length: 4 to 254 characters.	The string can contain only hexadecimal numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HAddress	Client hardware address of the	N/A	String, case-insensitive. Length: 4 to 79 characters.	The string can contain only hexadecimal

Column name	Column description	Column type	Data type and restrictions	Remarks
	static binding			numbers and hyphen (-), in the format of H-H-H.... The last H can be a two-digit or four-digit hexadecimal number while the other Hs must be all four-digit hexadecimal numbers. For example, aabb-cccc-dd is correct, and aabb-c-dddd and aabb-cc-dddd are not correct.
HType	Client hardware address of the static binding	N/A	Enumeration: 1—ethernet. 2—tokenRing.	ethernet:the client hardware address type is Ethernet. tokenRing: the client hardware address type as token ring.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
EndLease		N/A	String, case-insensitive. Length: 1 to 19 characters.	Format: month/day/year hour:minute:second (MM/DD/YYYY hh:mm:ss)
Type		N/A	Enumeration: 1—staticUnallocated. 2—staticOffered. 3—staticCommitted. 4—autoOffered. 5—autoCommitted.	staticUnallocated: A free static binding whose IP address has not been assigned. staticOffered: An offered static binding whose IP address has been selected and sent by the DHCP server in a

Column name	Column description	Column type	Data type and restrictions	Remarks
				DHCP-OFFER packet to the client. staticCommitted: A committed static binding whose IP address has been assigned to the DHCP client. autoOffered: An offered temporary dynamic binding whose IP address has been dynamically selected by the DHCP server and sent in a DHCP-OFFER packet to the DHCP client. autoCommitted: A committed dynamic binding whose IP address has been dynamically assigned to the DHCP client.
IfIndex	Interface index		Unsigned integer.	N/A

DHCP/DHCPConfig

This table contains DHCP server and DHCP relay configuration information.

XML structure

```

<DHCP>
  <DHCPConfig>
    <DHCPEnable></DHCPEnable>
    <ServerConfig>
      <AlwaysBroadcast></AlwaysBroadcast>
      <IgnoreBOOTP></IgnoreBOOTP>
      <BOOTPReplyRFC1048></BOOTPReplyRFC1048>
      <Opt82Enabled></Opt82Enabled>
      <PingNumber></PingNumber>
    </ServerConfig>
  </DHCPConfig>
</DHCP>

```

```

    <PingTimeout></PingTimeout>
  </ServerConfig>
  <RelayConfig>
    <UserInfoRecord></UserInfoRecord>
    <UserInfoRefresh></UserInfoRefresh>
    <UserInfoFlushTime></UserInfoFlushTime>
  </RelayConfig>
</DHCPConfig>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPEnable	Whether the function of DHCP is enabled.	N/A	Boolean: true false	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: - AlwaysBroadcast - Alert - IgnoreBOOTP - BOOTPReplyRFC 1048 - Opt82Enabled - PingNumber - PingTimeout	N/A
AlwaysBroadcast	Whether Enable the DHCP server to broadcast all	N/A	Boolean: true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	responses or not.		false	
IgnoreBOOTP	Whether Ignore BOOTP requests or not.	N/A	Boolean: true false	N/A
BOOTPReplyRFC1048	Whether enable the DHCP server to send BOOTP responses in RFC 1048 format when it receives RFC 1048-incompliant BOOTP requests for statically bound addresses or not.	N/A	Boolean: true false	N/A
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: true false	N/A
PingNumber	Maximum number of ping packets	N/A	Unsigned integer. Value range: 0 to 10.	To disable the address conflict detection, set the value to 0.
PingTimeout	Ping response timeout time on the DHCP server	N/A	Unsigned integer. Value range: 0 to 10000 milliseconds.	To disable the ping operation for address conflict detection, set the value to 0 milliseconds.
RelayConfig	The configuration of DHCP relay	Data structure	Members include: - UserInfoRecord - UserInfoRefresh - UserInfoFlushTime	N/A
UserInfoRecord	Whether the function of recording client information in relay entries is enabled.	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserInfoRefresh	Whether enable the relay agent to periodically refresh dynamic relay entries or not.	N/A	Boolean: true false	N/A
UserInfoFlushTime	Interval at which the DHCP relay agent periodically refreshes relay entries	N/A	Unsigned integer. Value range: 0 to 120 seconds.	To automatically calculate the refresh interval, set the value to 0 seconds.

DHCP/DHCPIfMode

This table contains DHCP interface mode information.

XML structure

```

<DHCP>
  <DHCPIfMode>
    <IfMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </IfMode>
  </DHCPIfMode>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPIfMode
Table type	Multi-instance table
Row name	IfMode
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Mode	DHCP mode	N/A	Enumeration: • 0—None. • 1—Server. • 2—Relay.	N/A

DHCP/DHCPRelaySrvIPv4Address

This table contains DHCP servers on the DHCP relay agent information.

XML structure

```
<DHCP>
  <DHCPRelaySrvIPv4Address>
    <RelaySrvIPv4>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </RelaySrvIPv4>
  </DHCPRelaySrvIPv4Address>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrvIPv4Address
Table type	Multi-instance table
Row name	RelaySrvIPv4
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A

DHCP/DHCPRelayUserInfo

This table contains DHCP relay entries information.

XML structure

```
<DHCP>
  <DHCPRelayUserInfo>
    <RelayUserInfo>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <IfIndex></IfIndex>
    </RelayUserInfo>
  </DHCPRelayUserInfo>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayUserInfo
Table type	Multi-instance table
Row name	RelayUserInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer.	0 means public network.
Ipv4Address	DHCP servers IP address on the DHCP relay agent	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IfIndex	Interface Index	N/A	Unsigned integer.	0 means no interface information.

DHCP/DHCPServerPoolOption

This table contains DHCP server IP pool options information.

XML structure

```
<DHCP>
  <DHCPServerPoolOption>
    <IpPoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
      <OptionValueAscii></OptionValueAscii>
      <OptionValueIpAddresses></OptionValueIpAddresses>
    </IpPoolOption>
  </DHCPServerPoolOption>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolOption
Table type	Multi-instance table

Row name	IpPoolOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	DHCP address pool index	Index	Unsigned integer. Value range: 0 to 4096.	The specified PoolIndex must already exist.
OptionCode	Number of the customized option	Index	Unsigned integer. Value range: 2 to 254.	Excluding 50 through 54, 56, 58, 59, 61, and 82.
OptionValueHex	Hex string as the option content	N/A	String, case insensitive. Length: 2 to 256 characters.	Hex string of even numbers from 2 to 256 as the option content.
OptionValueAscii	ASCII string as the option content	N/A	String, case sensitive. Length: 1 to 255 characters.	N/A
OptionValueIpAddresses	IP addresses as the option content	N/A	String, case insensitive. Length: 1 to 127 characters.	Separated by space if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3.

DHCP/ DHCPServerPoolStatistics

This table contains DHCP server pool statistics information.

XML structure

```

<DHCP>
  <DHCPServerPoolStatistics>
    <IpPoolStatistics>
      <PoolName></PoolName>
      <UsedIpNumber></UsedIpNumber>
      <ExpiredIpNumber></ExpiredIpNumber>
      <TotalIpNumber></TotalIpNumber>
    </IpPoolStatistics>
  </DHCPServerPoolStatistics>
</DHCP>

```

```

    </IpPoolStatistics>
  </DHCPServerPoolStatistics>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerPoolStatistics
Table type	Multi-instance table
Row name	IpPoolStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolName	DHCP pool name	Index	String.	N/A
UsedIpNumber	Number of used IP addresses in the address pool	N/A	Unsigned integer.	N/A
ExpiredIpNumber	Number of expired IP address leases in the address pool	N/A	Unsigned integer.	N/A
TotalIpNumber	Total number of IP addresses in the address pool	N/A	Unsigned integer.	N/A

DHCP/DHCPRelaySrcAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelaySrcAddress>
    <RelaySrcIPv4>
      <IfIndex></IfIndex>
      <IPv4Address></IPv4Address>
    </RelaySrcIPv4>
  </DHCPRelaySrcAddress>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySrcAddresss
Table type	Multi-instance table
Row name	RelaySrcIPv4
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
IPv4Address	source IP addresses of the packets sent by the DHCP relay	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	agent			

DHCP/DHCPRelayInfoEnable

This table contains information about whether the DHCP relay agent support Option 82.

XML structure

```

<DHCP>
  <DHCPRelayInfoEnable>
    <RelayInfoEnable>
      <IfIndex></IfIndex>
      <InfoEnable></InfoEnable>
    </RelayInfoEnable>
  </DHCPRelayInfoEnable>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayInfoEnable
Table type	Multi-instance table
Row name	RelayInfoEnable
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For related information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
InfoEnable	Whether the DHCP relay agent support Option 82.	N/A	Boolean: true false	N/A

DHCP/DHCPServerLeaseInfo

This table contains DHCP server lease information.

XML structure

```

<DHCP>
  <DHCPServerLeaseInfo>
    <LeaseInfo>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <HostName></HostName>
      <Option55></Option55>
    </LeaseInfo>
  </DHCPServerLeaseInfo>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerLeaseInfo
Table type	Multi-instance table
Row name	LeaseInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
Ipv4Address	IP address allocated to client	Index	String, dotted decimal notation.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
HostName	Host name of the client	N/A	String, case insensitive. Length: 1 to 253 characters.	The length of characters is 0 when a specific client is used.
Option55	Parameter request list	N/A	String, case insensitive. Length: 2 to 510 characters.	The length of characters is 0 when a specific client is used.

DHCP/DHCPServerForbiddenIp

This table contains information about IP addresses excluded from dynamic allocation globally.

XML structure

```
<DHCP>
  <DHCPServerForbiddenIp>
    <ForbiddenIp>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </ForbiddenIp>
  </DHCPServerForbiddenIp>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerForbiddenIp
Table type	Multi-instance table
Row name	ForbiddenIp
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the lease is on the public network, the length of characters is 0.
StartIpv4Address	Start IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	N/A
EndIpv4Address	End IP address of an IP address range that is excluded from dynamic allocation globally	Index	String, dotted decimal notation.	EndIpv4Address cannot be lower than the StartIpv4Address.

DHCP/ DHCPServerSubnetInUse

This table contains information about subnet allocation IP addresses.

XML structure

```
<DHCP>
  <DHCPServerSubnetInUse>
    <SubnetInUse>
      <VRF></VRF>
      <NetworkAddress></NetworkAddress>
      <NetworkMask></NetworkMask>
      <SubAllocMode></SubAllocMode>
      <VXLANID></VXLANID>
      <DPAAddress></DPAAddress>
      <UsedIpNumber></UsedIpNumber>
      <ExpiredIpNumber></ExpiredIpNumber>
      <TotalIpNumber></TotalIpNumber>
      <PoolName></PoolName>
    </SubnetInUse>
  </DHCPServerSubnetInUse>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPServerSubnetInUse
Table type	Multi-instance table
Row name	SubnetInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	If the lease is on the public network, the length of characters is 0.
Network Address	Subnet Address	Index	String, dotted decimal notation.	N/A
NetworkMask	Subnet Mask	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 30.	
SubAllocMode	Subnet Alloc Mode	N/A	Enumeration: • 0—vxlanId. • 1—dp-address.	If the subnet alloc by the vxlanId mode, the DP address cannot be displayed. If the subnet alloc by the dp-address mode, the vxlanId cannot be displayed.
VXLAN ID	VXLAN ID	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
DPAAddress	DP Address	N/A	String, dotted decimal notation.	N/A
UsedIpNumber	Number of used IP addresses in subnet.	N/A	Unsigned integer.	N/A
ExpiredIpNumber	Number of expired IP addresses in subnet.	N/A	Unsigned integer.	N/A
TotalIpNumber	Total Number of allocated IP addresses in subnet	N/A	Unsigned integer.	N/A
PoolName	Subnet-alloc Pool Name	N/A	String.	N/A

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DHCP6

DHCP6/DHCP6ServerUpdateDatabase

This table is used to save current IPv6 DHCP server entries to the file and stop downloading these entries from the file.

XML structure

```
<DHCP6>
  <DHCP6ServerUpdateDatabase>
    <UpdateMode></UpdateMode>
  </DHCP6ServerUpdateDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerUpdateDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UpdateMode	Update IPv6 DHCP server database immediately. Stop downloading entries from IPv6 DHCP server database.	N/A	Unsigned integer: • 0—Now. • 1—Stop.

DHCP6/DHCP6ServerClearIpInUse

This table is used to clear binding information about assigned IPv6 addresses according to VRF and IP6 address.

XML structure

```
<DHCP6>
  <DHCP6ServerClearIpInUse>
    <ClearIpInUse>
      <VRF></VRF>
    </ClearIpInUse>
  </DHCP6ServerClearIpInUse>
</DHCP6>
```



```

        <Ipv6Address></Ipv6Address>
    </ClearIpInUse>
</DHCP6ServerClearIpInUse>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearIpInUse
Table type	Multi-instance table
Row name	ClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A

DHCP6/DHCP6ServerClearIpInUseByPool

This table is used to clear binding information about assigned IPv6 addresses according to pool name.

XML structure

```

<DHCP6>
  <DHCP6ServerClearIpInUseByPool>
    <ClearIpInUse>
      <PoolName></PoolName>
    </ClearIpInUse>
  </DHCP6ServerClearIpInUseByPool>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearIpInUseByPool

Item	Description
Table type	Multi-instance table
Row name	ClearIpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	IPv6 DHCP address pool name	Index	String, case-insensitive. Length: 1 to 63 characters.

DHCP6/DHCP6ServerClearPDInUseByPrefix

This table is used to clear prefix binding information about assigned IPv6 addresses according to VRF, IPv6 address and Ipv6 prefix length.

XML structure

```

<DHCP6>
  <DHCP6ServerClearPDInUseByPrefix>
    <ClearPDInUseByPrefix>
      <VRF></VRF>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
    </ClearPDInUseByPrefix>
  </DHCP6ServerClearPDInUseByPrefix>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearPDInUseByPrefix
Table type	Multi-instance table
Row name	ClearPDInUseByPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

DHCP6/DHCP6ServerClearPDInUseByPool

This table is used to clear prefix binding information about assigned IPv6 addresses according to pool name.

XML structure

```

<DHCP6>
  <DHCP6ServerClearPDInUseByPool>
    <ClearPDInUseByPool>
      <PoolName></PoolName>
    </ClearPDInUseByPool>
  </DHCP6ServerClearPDInUseByPool>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerClearPDInUseByPool
Table type	Multi-instance table
Row name	ClearPDInUseByPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolName	IPv6 DHCP address pool name	Index	String, case-insensitive. Length: 1 to 63 characters.

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DHCP6

DHCP6/DHCP6ServerDatabase

This table contains IPv6 DHCP server database configuration information.

XML structure

```
<DHCP6>
  <DHCP6ServerDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCP6ServerDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerDatabase
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL can not be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String. case-sensitive. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String. case-sensitive. Length: 1 to 32 characters.	Can not be configured for the delete and remove operations.
Password	FTP password	N/A	String. case-sensitive. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Can not be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCP6/DHCP6ServerIpPool

This table contains IPv6 DHCP server pool information.

XML structure

```

<DHCP6>
  <DHCP6ServerIpPool>
    <Pool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <Network>
        <NetworkIpv6Address></NetworkIpv6Address>
        <NetworkIpv6PrefixLength></NetworkIpv6PrefixLength>
        <NetworkPreferLifetime></NetworkPreferLifetime>
        <NetworkValidLifetime></NetworkValidLifetime>
        <NetworkExportRoute></NetworkExportRoute>
      </Network>
    </Pool>
  </DHCP6ServerIpPool>
</DHCP6>

```

```

<Range>
  <StartIpv6Address></StartIpv6Address>
  <EndIpv6Address></EndIpv6Address>
  <RangePreferLifetime></RangePreferLifetime>
  <RangeValidLifetime></RangeValidLifetime>
</Range>
<TempRange>
  <TempStartIpv6Address></TempStartIpv6Address>
  <TempEndIpv6Address></TempEndIpv6Address>
  <TempRangePreferLifetime></TempRangePreferLifetime>
  <TempRangeValidLifetime></TempRangeValidLifetime>
</TempRange>
<PrefixPool>
  <PrefixPoolNumber></PrefixPoolNumber>
  <PrefixPoolPreferLifetime></PrefixPoolPreferLifetime>
  <PrefixPoolValidLifetime></PrefixPoolValidLifetime>
</PrefixPool>
<DomainName></DomainName>
<GatewayIpv6Address></GatewayIpv6Address>
<DNSIpv6Address></DNSIpv6Address>
<SIPIpv6Address></SIPIpv6Address>
<SIPDomainName></SIPDomainName>
</Pool>
</DHCP6ServerIpPool>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpPool
Table type	Multi-instance table
Row name	Pool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 0 to 1024.	For the merge, create and replace operations, 0 means to automatically assign a minimum unused index. For the delete and remove operations, 0 can not be set.
PoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Required when create a new row, can not be modified.
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Network	The configuration of the IPv6 subnet	Data structure	Members include: • NetworkIpv6Address • NetworkIpv6PrefixLength • NetworkPreferredLifetime • NetworkValidLifetime	N/A
NetworkIpv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	Modifying or removing the network configuration deletes the assigned addresses from the current address pool.
NetworkIpv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Must be specified with NetworkIpv6Address.
NetworkPreferredLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with NetworkIpv6Address when the configuration of the IPv6 subnet is not exist.
NetworkValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with NetworkIpv6Address when the configuration of the IPv6 subnet is not exist. The preferred lifetime can't be longer than the valid lifetime.

Column name	Column description	Column type	Data type and restrictions	Remarks
NetworkExportRoute	Whether advertise the subnet assigned to IPv6 DHCP clients or not.	N/A	Boolean: true false (default)	It must be configured together with NetworkIpv6Address when the configuration of the IPv6 subnet is not exist.
Range	The configuration of the non-temporary IPv6 address range	Data structure	Members include: - StartIpv6Address - EndIpv6Address - RangePreferLifetime - RangeValidLifetime	N/A
StartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
EndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	Must be specified with StartIpv6Address.
RangePreferLifetime	The preferred lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with StartIpv6Address when the configuration of the non-temporary IPv6 address range is not exist. The preferred lifetime can't be longer than the valid lifetime.
RangeValidLifetime	The valid lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with StartIpv6Address when the configuration of the non-temporary IPv6 address range is not exist.
TempRange	The configuration of the temporary IPv6 address range	Data structure	Members include: - TempStartIpv6Address - TempEndIpv6Address - TempRangePreferLifetime - TempRangeValidLifetime	N/A
TempStartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempEndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	Must be specified with TempStartIpv6Address.

Column name	Column description	Column type	Data type and restrictions	Remarks
TempRangePreferLifetime	The preferred lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with TempStartIpv6Address when the configuration of the temporary IPv6 address range is not exist. The preferred lifetime can't be longer than the valid lifetime.
TempRangeValidLifetime	The valid lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with TempStartIpv6Address when the configuration of the temporary IPv6 address range is not exist.
PrefixPool	The configuration of the prefix pool applied in the IPv6 DHCP address pool	Data structure	Members include: - PrefixPoolNumber - PrefixPoolPreferLifetime - PrefixPoolValidLifetime	N/A
PrefixPoolNumber	Prefix pool number	N/A	Unsigned integer. Value range: 1 to 128	N/A
PrefixPoolPreferLifetime	The preferred lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800.	It must be configured together with PrefixPoolNumber when the configuration of the prefix pool is not exist. The preferred lifetime can't be longer than the valid lifetime.
PrefixPoolValidLifetime	The valid lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	It must be configured together with PrefixPoolNumber when the configuration of the prefix pool is not exist.
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
GatewayIpv6Address	Gateway addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSIPv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPIPv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.

DHCP6/ DHCP6OptionGroup

This table contains IPv6 DHCP option group and self-defined IPv6 DHCP option configuration information.

XML structure

```

<DHCP6>
  <DHCP6OptionGroup>
    <OptionGroup>
      <GroupNumber></GroupNumber>
      <DNSIPv6Address></DNSIPv6Address>
      <DomainName></DomainName>
      <SIPIPv6Address></SIPIPv6Address>
      <SIPDomainName></SIPDomainName>
    </OptionGroup>
  </DHCP6OptionGroup>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6

Item	Description
Table name	DHCP6OptionGroup
Table type	Multi-instance table
Row name	OptionGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	N/A
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.

DHCP6/ DHCP6OptionGroupOption

This table contains self-defined IPv6 DHCP option configuration information.

XML structure

```
<DHCP6>
  <DHCP6OptionGroupOption>
    <GroupOption>
      <GroupNumber></GroupNumber>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </GroupOption>
  </DHCP6OptionGroupOption>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroupOption
Table type	Multi-instance table
Row name	GroupOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	The specified GroupNumber must already exist.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535	Following values of OptionCode are forbidden: 25、26、37 to 40 and 43 to 48
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.	Length of OptionValueHex must be an even number.

DHCP6/DHCP6RelayPoolRemoteServer

This table contains IPv6 DHCP relay pool remote server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv6Address></RemoteServerIpv6Address>
    </RemoteServer>
  </DHCP6RelayPoolRemoteServer>
</DHCP6>
```

```

    <OutIfIndex></OutIfIndex>
  </RemoteServer>
</DHCP6RelayPoolRemoteServer>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayPoolRemoteServer
Table type	Multi-instance table
Row name	RemoteServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
RemoteServerIpv6Address	IPv6 DHCP server address.	Index	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1 and local multi-cast address are invalid addresses.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.	If a IPv6 DHCP server address is a link-local address, you must specify an outgoing interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

DHCP6/DHCP6Config

This table contains IPv6 DHCP DSCP configuration information.

XML structure

```

<DHCP6>
  <DHCP6Config>

```

```

    <DSCP></DSCP>
  </DHCP6Config>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Config
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DSCP	The DSCP value for IPv6 DHCP packets	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.

DHCP6/DHCP6ServerPoolStaticAddress

This table contains IPv6 DHCP server pool static address information.

XML structure

```

<DHCP6>
  <DHCP6ServerPoolStaticAddress>
    <PoolStaticAddress>
      <PoolIndex></PoolIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </PoolStaticAddress>
  </DHCP6ServerPoolStaticAddress>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticAddress
Table type	Multi-instance table
Row name	PoolStaticAddress
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.	If you do not specify an IAID, the server does not match the client IAID for prefix assignment.
PreferLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800	The preferred lifetime can't be longer than the valid lifetime.
ValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	N/A

DHCP6/DHCP6ServerPoolStaticPrefix

This table contains IPv6 DHCP server pool static prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticPrefix>
    <PoolStaticPrefix>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </PoolStaticPrefix>
  </DHCP6ServerPoolStaticPrefix>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticPrefix
Table type	Multi-instance table
Row name	PoolStaticPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.	If you do not specify an IAID, the server does not match the client IAID for prefix assignment.
PreferLifetime	The preferred lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 604800	The preferred lifetime can't be longer than the valid lifetime.
ValidLifetime	The valid lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295. Default: 2592000.	N/A

DHCP6/DHCP6RelaySrvAddress

This table contains IPv6 DHCP relay server configuration information.

XML structure

```

<DHCP6>
  <DHCP6RelaySrvAddress>
    <RelaySrvIPv6>
      <IfIndex></IfIndex>
      <IPv6Address></IPv6Address>
      <OutIfIndex></OutIfIndex>
    </RelaySrvIPv6>
  </DHCP6RelaySrvAddress>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySrvAddress
Table type	Multi-instance table
Row name	RelaySrvIPv6
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Address	IPv6 DHCP servers IPv6 address on the IPv6 DHCP relay agent.	Index	Hexadecimal string, colon-separated.	For the merge, create and replace operations, 0::0,0::1 and local multi-cast address are invalid addresses.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.	If a IPv6 DHCP server address is a link-local address, you must specify an outgoing interface

DHCP6/ DHCP6PrefixPool

This table contains IPv6 DHCP prefix pool configuration information.

XML structure

```

<DHCP6>
  <DHCP6PrefixPool>
    <PrefixPool>
      <VRF></VRF>
      <PrefixPoolNumber></PrefixPoolNumber>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <AssignIpv6PrefixLength></AssignIpv6PrefixLength>
    </PrefixPool>
  </DHCP6PrefixPool>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixPool
Table type	Multi-instance table
Row name	PrefixPool

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the prefix pool is on the public network, the length of characters is 0.
PrefixPoolNumber	Prefix pool number	Index	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	N/A	Hexadecimal string, colon-separated.	Required when create a new row, can not be deleted.
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted.
AssignIpv6PrefixLength	Length of the assigned IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when create a new row, can not be deleted. The value can't be shorter than Ipv6PrefixLength. The difference between AssignIpv6PrefixLength and Ipv6PrefixLength can't be greater than 16.

DHCP6/DHCP6If

This table contains IPv6 DHCP config information on interface.

XML structure

```

<DHCP6>
  <DHCP6If>
    <IfConfigure>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <ServerAllowHint></ServerAllowHint>
      <ServerRapidCommit></ServerRapidCommit>
      <ServerPreference></ServerPreference>
    
```

```

    <ApplyPoolName></ApplyPoolName>
    <ApplyPoolAllowHint></ApplyPoolAllowHint>
    <ApplyPoolRapidCommit></ApplyPoolRapidCommit>
    <ApplyPoolPreference></ApplyPoolPreference>
    <RelayInterfaceIDMode></RelayInterfaceIDMode>
    <RelayGatewayAddress></RelayGatewayAddress>
  </IfConfigure>
</DHCP6If>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6If
Table type	Multi-instance table
Row name	IfConfigure
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Mode	DHCPv6 mode	N/A	Enumeration: • 0—None(default). • 1—Server. • 2—Relay.	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: • true • false(default).	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: • true • false(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	N/A
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: true false(default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolRapidCommit	Enable the rapid commit function.	N/A	Boolean: true false(default)	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295. Default: 4294967295	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
RelayInterfaceID Mode	IPv6 Interface-Id Option	N/A	Enumeration: 0—None(default). 1—Bas. 2—Interface.	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index of the interface.
RelayGatewayAddress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A

DHCP6/ DHCP6ServerPoolOption

This table contains IPv6 DHCP server pool option information.

XML structure

```

<DHCP6>
  <DHCP6ServerPoolOption>
    <PoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </PoolOption>
  </DHCP6ServerPoolOption>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolOption
Table type	Multi-instance table
Row name	PoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	The specified PoolIndex must already exist.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535	Following values of OptionCode are forbidden: 25、26、37 to 40 and 43 to 48
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.	Required when create a new row, can not be deleted. Length of OptionValueHex must be an even number.

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DHCP6

DHCP6/DHCP6ServerDatabase

This table contains IPv6 DHCP server database information.

XML structure

```
<DHCP6>
  <DHCP6ServerDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCP6ServerDatabase>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Object file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string	N/A	String, case-sensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String, case-sensitive. Length: 1 to 32 characters.
Password	FTP password	N/A	String, case-sensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds.

DHCP6/DHCP6ServerIpPool

This table contains IPv6 DHCP server pool information.

XML structure

```
<DHCP6>
  <DHCP6ServerIpPool>
    <Pool>
      <PoolIndex></PoolIndex>
      <PoolName></PoolName>
      <VRF></VRF>
      <Network>
        <NetworkIpv6Address></NetworkIpv6Address>
        <NetworkIpv6PrefixLength></NetworkIpv6PrefixLength>
        <NetworkPreferLifetime></NetworkPreferLifetime>
        <NetworkValidLifetime></NetworkValidLifetime>
        <NetworkExportRoute></NetworkExportRoute>
      </Network>
      <Range>
        <StartIpv6Address></StartIpv6Address>
        <EndIpv6Address></EndIpv6Address>
        <RangePreferLifetime></RangePreferLifetime>
        <RangeValidLifetime></RangeValidLifetime>
      </Range>
      <TempRange>
        <TempStartIpv6Address></TempStartIpv6Address>
        <TempEndIpv6Address></TempEndIpv6Address>
        <TempRangePreferLifetime></TempRangePreferLifetime>
        <TempRangeValidLifetime></TempRangeValidLifetime>
      </TempRange>
      <PrefixPool>
        <PrefixPoolNumber></PrefixPoolNumber>
        <PrefixPoolPreferLifetime></PrefixPoolPreferLifetime>
        <PrefixPoolValidLifetime></PrefixPoolValidLifetime>
      </PrefixPool>
      <DomainName></DomainName>
      <GatewayIpv6Address></GatewayIpv6Address>
      <DNSIpv6Address></DNSIpv6Address>
      <SIPIpv6Address></SIPIpv6Address>
      <SIPDomainName></SIPDomainName>
    </Pool>
  </DHCP6ServerIpPool>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpPool
Table type	Multi-instance table
Row name	Pool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.	N/A
PoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the Ipv6 pool is on the public network, the length of characters is 0.
Network	The configuration of the IPv6 subnet	Data structure	Members include: - NetworkIpv6Address - NetworkIpv6PrefixLength - NetworkPreferredLifetime - NetworkValidLifetime	N/A
NetworkIpv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	N/A
NetworkIpv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A
NetworkPreferredLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
NetworkValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
NetworkExportRoute	Whether advertise the subnet assigned to DHCPv6 clients or not.	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Range	The configuration of the non-temporary IPv6 address range	Data structure	Members include: - StartIpv6Address - EndIpv6Address - RangePreferLifetime - RangeValidLifetime	N/A
StartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
EndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
RangePreferLifetime	The preferred lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A .
RangeValidLifetime	The valid lifetime of the non-temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
TempRange	The configuration of the temporary IPv6 address range	Data structure	Members include: - TempStartIpv6Address - TempEndIpv6Address - TempRangePreferLifetime - TempRangeValidLifetime	N/A
TempStartIpv6Address	The start IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempEndIpv6Address	The end IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
TempRangePreferLifetime	The preferred lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
TempRangeValidLifetime	The valid lifetime of the temporary IPv6 address range	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
PrefixPool	The configuration of the prefix pool applied in the IPv6 DHCP address pool	Data structure	Members include: - PrefixPoolNumber - PrefixPoolPreferLifetime - PrefixPoolValidLifetime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixPoolNumber	Prefix pool number	N/A	Unsigned integer. Value range: 1 to 128	N/A
PrefixPoolPreferredLifetime	The preferred lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
PrefixPoolValidLifetime	The valid lifetime of the prefix pool	N/A	Unsigned integer. Value range: 60 to 4294967295.	N/A
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
GatewayIpv6Address	Gateway addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example: 1::1 2::2.
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example: 1::1 2::2.
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Seperated by space if there are multiple addresses. Example: 1::1 2::2.
SIPDomainName	DNS server domain name	N/A	String, case-sensitive. Length: 1 to 407 characters.	Seperated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Example: aa.com bb.com.

DHCP6/DHCP6OptionGroup

This table contains IPv6 DHCP option group and self-defined IPv6 DHCP option configuration information.

XML structure

```

<DHCP6>
  <DHCP6OptionGroup>
    <OptionGroup>
      <GroupNumber></GroupNumber>
      <DNSIpv6Address></DNSIpv6Address>
      <DomainName></DomainName>
      <SIPIpv6Address></SIPIpv6Address>
    </OptionGroup>
  </DHCP6OptionGroup>
</DHCP6>

```

```

        <SIPDomainName></SIPDomainName>
    </OptionGroup>
</DHCP6OptionGroup>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroup
Table type	Multi -instance table
Row name	OptionGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100	N/A
DNSIpv6Address	DNS server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
DomainName	Domain name suffix	N/A	String, case-sensitive. Length: 1 to 50 characters	N/A
SIPIpv6Address	SIP server addresses	N/A	String, case-insensitive. Length: 1 to 367 characters.	Separated by space if there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.

Column name	Column description	Column type	Data type and restrictions	Remarks
SIPDomainName	DNS server domain name	N/A	String, case-insensitive. Length: 1 to 407 characters.	Separated by space if there are multiple SIP domain name. The max length of a SIP domain name is 50. Specifies a space-separated list of up to eight SIP domain names Example: aa.com bb.com.

DHCP6/DHCP6OptionGroupOption

This table contains self-defined IPv6 DHCP option configuration information.

XML structure

```

<DHCP6>
  <DHCP6OptionGroupOption>
    <GroupOption>
      <GroupNumber></GroupNumber>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </GroupOption>
  </DHCP6OptionGroupOption>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6OptionGroupOption
Table type	Multi -instance table
Row name	GroupOption
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	Group index	Index	Unsigned integer. Value range: 1 to 100
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535

Column name	Column description	Column type	Data type and restrictions
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.

DHCP6/DHCP6RelayPoolRemoteServer

This table contains IPv6 DHCP relay pool remote server configuration information.

XML structure

```

<DHCP6>
  <DHCP6RelayPoolRemoteServer>
    <RemoteServer>
      <PoolIndex></PoolIndex>
      <RemoteServerIpv6Address></RemoteServerIpv6Address>
      <OutIfIndex></OutIfIndex>
    </RemoteServer>
  </DHCP6RelayPoolRemoteServer>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelayPoolRemoteServer
Table type	Multi -instance table
Row name	RemoteServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
RemoteServerIpv6Address	IPv6 DHCP server address.	Index	Hexadecimal string, colon-separated.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the DHCPv6 server	Index	Unsigned integer.

DHCP6/DHCP6Config

This table contains IPv6 DHCP DSCP configuration information.

XML structure

```
<DHCP6>
  <DHCP6Config>
    <DSCP></DSCP>
  </DHCP6Config>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DSCP	The DSCP value for IPv6 DHCP packets	N/A	Unsigned integer. Value range: 0 to 63.

DHCP6/DHCP6ServerPoolStaticAddress

This table contains IPv6 DHCP server pool static address information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticAddress>
    <PoolStaticAddress>
      <PoolIndex></PoolIndex>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </PoolStaticAddress>
  </DHCP6ServerPoolStaticAddress>
</DHCP6>
```

</DHCP6>

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticAddress
Table type	Multi-instance table
Row name	PoolStaticAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	The preferred lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	The valid lifetime of the IPv6 subnet	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/DHCP6ServerPoolStaticPrefix

This table contains IPv6 DHCP server pool static prefix information.

XML structure

```
<DHCP6>
  <DHCP6ServerPoolStaticPrefix>
    <PoolStaticPrefix>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
```

```

    </Ipv6Prefix>
    <DUID></DUID>
    <IAID></IAID>
    <PreferLifetime></PreferLifetime>
    <ValidLifetime></ValidLifetime>
  </PoolStaticPrefix>
</DHCP6ServerPoolStaticPrefix>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolStaticPrefix
Table type	Multi-instance table
Row name	PoolStaticPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	The preferred lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	The valid lifetime of the IPv6 static prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/DHCP6RelaySrvAddress

This table contains IPv6 DHCP relay server configuration information.

XML structure

```
<DHCP6>
  <DHCP6RelaySrvAddress>
    <RelaySrvIPv6>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <OutIfIndex></OutIfIndex>
    </RelaySrvIPv6>
  </DHCP6RelaySrvAddress>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6RelaySrvAddress
Table type	Multi-instance table
Row name	RelaySrvIPv6
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
Ipv6Address	IPv6 DHCP servers IPv6 address on the IPv6 DHCP relay agent.	Index	Hexadecimal string, colon-separated.
OutIfIndex	The outgoing interface for the IPv6 DHCP relay agent to forward packets to the IPv6 DHCP server	Index	Unsigned integer.

DHCP6/ DHCP6PrefixPool

This table contains IPv6 DHCP prefix pool configuration information.

XML structure

```
<DHCP6>
  <DHCP6PrefixPool>
    <PrefixPool>
      <VRF></VRF>
      <PrefixPoolNumber></PrefixPoolNumber>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
      </Ipv6Prefix>
    </PrefixPool>
  </DHCP6PrefixPool>
</DHCP6>
```

```

    <Ipv6PrefixLength></Ipv6PrefixLength>
  </Ipv6Prefix>
  <AssignIpv6PrefixLength></AssignIpv6PrefixLength>
</PrefixPool>
</DHCP6PrefixPool>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixPool
Table type	Multi-instance table
Row name	PrefixPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	If the prefix pool is on the public network, the length of characters is 0.
PrefixPoolNumber	Prefix pool number	Index	Unsigned integer. Value range: 1 to 128.	N/A
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AssignIpv6PrefixLength	Length of the assigned IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	N/A

DHCP6/DHCP6If

This table contains IPv6 DHCP config information on interface.

XML structure

```

<DHCP6>
  <DHCP6If>
    <IfConfigure>
      <IfIndex></IfIndex>
    </IfConfigure>
  </DHCP6If>
</DHCP6>

```

```

    <Mode></Mode>
    <ServerAllowHint></ServerAllowHint>
    <ServerRapidCommit></ServerRapidCommit>
    <ServerPreference></ServerPreference>
    <ApplyPoolName></ApplyPoolName>
    <ApplyPoolAllowHint></ApplyPoolAllowHint>
    <ApplyPoolRapidCommit></ApplyPoolRapidCommit>
    <ApplyPoolPreference></ApplyPoolPreference>
    <RelayInterfaceIDMode></RelayInterfaceIDMode>
    <RelayGatewayAddress></RelayGatewayAddress>
  </IfConfigure>
</DHCP6If>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6If
Table type	Multi-instance table
Row name	IfConfigure
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Mode	DHCPv6 mode	N/A	Enumeration: 0—None. 1—Server. 2—Relay.	None means the interface discards IPv6 DHCP packets from IPv6 DHCP clients.
ServerAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: - true - false	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: - true - false	N/A
ServerPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	N/A
ApplyPoolName	IPv6 DHCP address pool name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApplyPoolAllowHint	Allow client suggested IPv6 addresses and prefixes.	N/A	Boolean: true false	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolRapidCommit	Enable the rapid commit function.	N/A	Boolean: true false	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
ApplyPoolPreference	Specify the server preference.	N/A	Unsigned integer. Value range: 0 to 255, 4294967295.	It must be configured together with ApplyPoolName when apply a IPv6 DHCP address pool to an interface.
RelayInterfaceID Mode	IPv6 Interface-Id Option	N/A	Enumeration: 0—None. 1—Bas. 2—Interface.	None means the IPv6 DHCP relay agent fills the Interface-ID option with the interface index of the interface.
RelayGatewayAddress	Gateway for DHCPv6 clients	N/A	Hexadecimal string, colon-separated.	N/A

DHCP6/DHCP6ServerIpInUse

This table contains binding information about assigned IPv6 addresses.

XML structure

```

<DHCP6>
  <DHCP6ServerIpInUse>
    <IpInUse>
      <PoolIndex></PoolIndex>
      <IPv6Address></IPv6Address>
      <Type></Type>
      <EndLease></EndLease>
      <ClientIPv6Address></ClientIPv6Address>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </IpInUse>
  </DHCP6ServerIpInUse>
</DHCP6>

```


Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerIpInUse
Table type	Multi-instance table
Row name	IpInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Type	IPv6 address binding types	N/A	Enumeration: • 0—Static(F). • 1—Static(O). • 2—Static(C).. • 3—Auto(E) • 4—Auto(O) • 5—Auto(C)
EndLease	Time when the lease of the IPv6 address will expire.	N/A	String, case-sensitive. Length: 1 to 19 characters.
ClientIPv6Addresses	Client IPv6 address	N/A	Hexadecimal string, colon-separated.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	Preferred lifetime in seconds of the IPv6 address	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	Valid lifetime in seconds of the IPv6 address	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/DHCP6ServerPDInUse

This table contains prefix binding information about assigned IPv6 addresses.

XML structure

```
<DHCP6>
  <DHCP6ServerPDInUse>
    <PDInUse>
      <PoolIndex></PoolIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <Type></Type>
      <EndLease></EndLease>
      <ClientIPv6Address></ClientIPv6Address>
      <DUID></DUID>
      <IAID></IAID>
      <PreferLifetime></PreferLifetime>
      <ValidLifetime></ValidLifetime>
    </PDInUse>
  </DHCP6ServerPDInUse>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPDInUse
Table type	Multi-instance table
Row name	PDInUse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength
Ipv6Address	IPv6 address prefix	Index	Hexadecimal string, colon-separated.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.

Column name	Column description	Column type	Data type and restrictions
Type	IPv6 address binding types	N/A	Enumeration: 0—Static(F). 1—Static(O). 2—Static(C).. 3—Auto(E) 4—Auto(O) 5—Auto(C)
EndLease	Time when the lease of the IPv6 address will expire.	N/A	String, case-sensitive. Length: 1 to 19 characters.
ClientIPv6Addresses	Client IPv6 address	N/A	Hexadecimal string, colon-separated.
DUID	The value is an even hexadecimal number in the range of 2 to 256.	N/A	String, case-insensitive. Length: 2 to 256 characters.
IAID	The value is a hexadecimal number in the range of 0 to FFFFFFFF	N/A	String, case-insensitive. Length: 8 characters.
PreferLifetime	Preferred lifetime in seconds of the IPv6 prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.
ValidLifetime	Valid lifetime in seconds of the IPv6 prefix	N/A	Unsigned integer. Value range: 60 to 4294967295.

DHCP6/ DHCP6ServerPoolOption

This table contains IPv6 DHCP server pool option information.

XML structure

```

<DHCP6>
  <DHCP6ServerPoolOption>
    <PoolOption>
      <PoolIndex></PoolIndex>
      <OptionCode></OptionCode>
      <OptionValueHex></OptionValueHex>
    </PoolOption>
  </DHCP6ServerPoolOption>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6ServerPoolOption
Table type	Multi-instance table

Item	Description
Row name	PoolOption
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PoolIndex	IPv6 DHCP address pool index	Index	Unsigned integer. Value range: 1 to 1024.
OptionCode	Number of the option	Index	Unsigned integer. Value range: 21 to 65535
OptionValueHex	Option content	N/A	String. case-insensitive. Length: 2 to 256 characters.

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DHCPC

DHCPC/DHCPConfig

This table contains DHCP client configuration information.

XML structure

```
<DHCPC>
  <DHCPConfig>
    <DadEnable></DadEnable>
    <DSCP></DSCP>
  </DHCPConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadEnable	Whether the function of duplicated address detection is enabled	N/A	Boolean: true (default) false	N/A
DSCP	Set the DSCP value for DHCP packets sent by the DHCP client	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	A bigger DSCP value represents a higher priority.

DHCPC/DHCPAlloc

This table contains the information about using DHCP for IP address acquisition.

XML structure

```
<DHCPC>
  <DHCPAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </DHCPAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use DHCP for IP address acquisition is enabled	N/A	Boolean: • true • false (default)	N/A

DHCP/DHCPClientID

This table contains DHCP client ID configuration information.

XML structure

```
<DHCPC>
  <DHCPClientID>
    <ClientID>
      <IfIndex></IfIndex>
      <ASCII></ASCII>
      <Hex></Hex>
      <ClientIfIndex></ClientIfIndex>
    </ClientID>
  </DHCPClientID>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPClientID
Table type	Multi-instance table
Row name	ClientID
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
ASCII	DHCP Client ID in ASCII code type	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	This column cannot be configured with Hex column or ClientIfIndex column together.

Column name	Column description	Column type	Data type and restrictions	Remarks
Hex	DHCP Client ID in hex code type	N/A	Hexadecimal string. Length: 4 to 64 characters.	This column cannot be configured with ASCII column or ClientIfIndex column together.
ClientIfIndex	Uses the MAC address of interface as a DHCP client ID	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. This column cannot be configured with ASCII column or Hex column together.

DHCP/BootpAlloc

This table contains the information about using BOOTP for IP address acquisition.

XML structure

```

<DHCP>
  <BootpAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </BootpAlloc>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	BootpAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use BOOTP for IP address acquisition is enabled	N/A	Boolean: • true • false (default)	N/A

DHCPC/DHCPCIfConfig

This table contains DHCP client configuration information on interface.

XML structure

```
<DHCPC>
  <DHCPCIfConfig>
    <IfConfigure>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
      <Priority></Priority>
    </IfConfigure>
  </DHCPCIfConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCIfConfig
Table type	Multi -instance table
Row name	IfConfigure
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
TrackID	Track number	N/A	Unsigned integer. Value range: 1 to 1024.	No track number is set by default.
Priority	Priority of the gateway	N/A	Unsigned integer. Value range: 1 to 255. Default: 70.	The greater the value, the higher the priority.

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XML structure	5
Table description	5
Columns	5
DHCPC/DHCPClientConfig	6
XML structure	6
Table description	6
Columns	7

DHCPC

DHCPC/DHCPConfig

This table contains DHCP client configuration information.

XML structure

```
<DHCPC>
  <DHCPConfig>
    <DadEnable></DadEnable>
    <DSCP></DSCP>
  </DHCPConfig>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DadEnable	Whether the function of duplicated address detection is enabled	N/A	Boolean: true false	N/A
DSCP	Set the DSCP value for DHCP packets sent by the DHCP client	N/A	Unsigned integer. Value range: 0 to 63	A bigger DSCP value represents a higher priority.

DHCPC/DHCPAlloc

This table contains the information about using DHCP for IP address acquisition.

XML structure

```
<DHCPC>
  <DHCPAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
      <CurrentState></CurrentState>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv4Mask></AllocatedIpv4Mask>
      <DHCPServerIpv4Address></DHCPServerIpv4Address>
      <Allocatedlease></Allocatedlease>
      <T1></T1>
      <T2></T2>
    </Alloc>
  </DHCPAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
AllocEnable	Whether the function of the interface to use DHCP for IP address acquisition is enabled	N/A	Boolean: • true • false	N/A
CurrentState	Current state of the DHCP client	N/A	Enumeration: • 1—HALT. • 2—INIT. • 3—SELECTING. • 4—REQUESTING. • 5—BOUND. • 6—RENEWING. • 7—REBOUNDING.	N/A
AllocatedIpv4Address	IPv4 address allocated by the DHCP server	N/A	String, dotted decimal notation.	N/A
AllocatedIpv4Mask	IPv4 address mask allocated by the DHCP server	N/A	String, dotted decimal notation.	N/A
DHCPServerIpv4Address	IPv4 address of the DHCP server that assigned IP addresses	N/A	String, dotted decimal notation.	N/A
Allocatedlease	Lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A
T1	1/2 lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A
T2	7/8 lease time (in seconds) for the allocated address	N/A	Unsigned integer.	N/A

DHCPC/DHCPClientID

This table contains DHCP client ID configuration information.

XML structure

```

<DHCPC>
  <DHCPClientID>
    <ClientID>
      <IfIndex></IfIndex>
      <ASCII></ASCII>
      <Hex></Hex>
    </ClientID>
  </DHCPClientID>
</DHCPC>

```

```

    <ClientIfIndex></ClientIfIndex>
  </ClientID>
</DHCPClientID>
</DHCPClientID>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPClientID
Table type	Multi-instance table
Row name	ClientID
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ASCII	DHCP Client ID in ASCII code type	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	This column cannot be configured with Hex column or ClientIfIndex column together.
Hex	DHCP Client ID in hex code type	N/A	Hexadecimal string. Length: 4 to 64 characters.	This column cannot be configured with ASCII column or ClientIfIndex column together.
ClientIfIndex	Uses the MAC address of interface as a DHCP client ID	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. This column cannot be configured with ASCII column or Hex column together.

DHCP/BootpAlloc

This table contains the information about using BOOTP for IP address acquisition.

XML structure

```
<DHCP>
  <BootpAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv4Mask></AllocatedIpv4Mask>
      <MacAddress></MacAddress>
    </Alloc>
  </BootpAlloc>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	BootpAlloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
AllocEnable	Whether the function of the interface to use BOOTP for IP address acquisition is enabled	N/A	Boolean: • true • false	N/A
AllocatedIpv4Address	IPv4 address allocated by the BOOTP server	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AllocatedIpv4Mask	IPv4 address mask allocated by the BOOTP server	N/A	String, dotted decimal notation.	N/A
MacAddress	MAC address of a BOOTP client	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A

DHCPC/DHCPCIfConfig

This table contains DHCP client configuration information on interfaces.

XML structure

```

<DHCPC>
  <DHCPCIfConfig>
    <IfConfigure>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
      <Priority></Priority>
      <NextHop></NextHop>
    </IfConfigure>
  </DHCPCIfConfig>
</DHCPC>

```

Table description

Item	Description
Feature name	DHCPC
Table name	DHCPCIfConfig
Table type	Multi -instance table
Row name	IfConfigure
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For related information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
TrackID	Track number	N/A	Unsigned integer. Value range: 1 to 1024.	No track number is set by default.
Priority	Priority of the gateway	N/A	Unsigned integer. Value range: 1 to 255. Default: 70.	The greater the value, the higher the priority.
NextHop	IP address of the next hop	N/A	String, dotted decimal notation.	N/A

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XML structure	4
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DHCPC6

DHCPC6/DHCPC6Config

This table contains DHCPv6 client configuration information.

XML structure

```
<DHCPC6>
  <DHCPC6Config>
    <DSCP></DSCP>
  </DHCPC6Config>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCPC6Config
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	Set DSCP value for DHCPv6 packets sent by the DHCPv6 client	N/A	Unsigned integer. Value range: 0 to 63. Default: 56.	A bigger DSCP value represents a higher priority.

DHCPC6/DHCP6Alloc

This table contains the information about using DHCPv6 for IPv6 address acquisition.

XML structure

```
<DHCPC6>
  <DHCP6Alloc>
    <Alloc>
      <IfIndex></IfIndex>
    </Alloc>
  </DHCP6Alloc>
</DHCPC6>
```

```

    <AllocEnable></AllocEnable>
    <OptionGroup></OptionGroup>
    <RapidCommit></RapidCommit>
  </Alloc>
</DHCP6Alloc>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Alloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
AllocEnable	Whether the function of the interface to use DHCPv6 for IPv6 address acquisition is enabled	N/A	Boolean: true false (default)	N/A
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	DHCPv6 client does not create any dynamic DHCPv6 option groups as default. This column is available when the AllocEnable column is true .

Column name	Column description	Column type	Data type and restrictions	Remarks
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: true false (default)	This column is available when the AllocEnable column is true .

DHCP6/DHCP6PrefixDelegation

This table contains the information about using DHCPv6 for IPv6 prefix acquisition.

XML structure

```

<DHCP6>
  <DHCP6PrefixDelegation>
    <PrefixDelegation>
      <IfIndex></IfIndex>
      <PrefixNumber></PrefixNumber>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </PrefixDelegation>
  </DHCP6PrefixDelegation>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixDelegation
Table type	Multi-instance table
Row name	PrefixDelegation
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PrefixNumber	IPv6 prefix ID	N/A	Unsigned integer. Value range: 1 to 1024.	No prefix ID as default. After obtaining an IPv6 prefix, the client assigns the ID to the IPv6 prefix.
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	DHCPv6 client does not create any dynamic DHCPv6 option groups as default. This column is available when the PrefixNumber column is set .
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: true false (default)	This column is available when the PrefixNumber column is set .

DHCPC6/DHCP6Stateless

This table contains stateless DHCPv6 configuration information.

XML structure

```

<DHCPC6>
  <DHCP6Stateless>
    <Stateless>
      <IfIndex></IfIndex>
      <StatelessEnable></StatelessEnable>
    </Stateless>
  </DHCP6Stateless>
</DHCPC6>

```

Table description

Item	Description
Feature name	DHCPC6

Item	Description
Table name	DHCP6Stateless
Table type	Multi-instance table
Row name	Stateless
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
StatelessEnable	Whether the function of stateless DHCPv6 is enabled	N/A	Boolean: true false (default)	N/A

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XML structure	5
Table description	5
Columns	6

DHCPv6

DHCPv6/DHCPv6Config

This table contains DHCPv6 client configuration information.

XML structure

```
<DHCPv6>
  <DHCPv6Config>
    <DSCP></DSCP>
  </DHCPv6Config>
</DHCPv6>
```

Table description

Item	Description
Feature name	DHCPv6
Table name	DHCPv6Config
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	Set DSCP value for DHCPv6 packets sent by the DHCPv6 client	N/A	Unsigned integer. Value range: 0 to 63.	A bigger DSCP value represents a higher priority.

DHCPv6/DHCPv6Alloc

This table contains the information about using DHCPv6 for IPv6 address acquisition.

XML structure

```
<DHCPv6>
  <DHCPv6Alloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </DHCPv6Alloc>
</DHCPv6>
```

```

    <OptionGroup></OptionGroup>
    <RapidCommit></RapidCommit>
  </Alloc>
</DHCP6Alloc>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Alloc
Table type	Multi-instance table
Row name	Alloc
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
AllocEnable	Whether the function of the interface to use DHCPv6 for IPv6 address acquisition is enabled	N/A	Boolean: true false	N/A
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	This column is available when the AllocEnable column is true .
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: true false	This column is available when the AllocEnable column is true .

DHCP6/DHCP6PrefixDelegation

This table contains the information about using DHCPv6 for IPv6 prefix acquisition.

XML structure

```
<DHCP6>
  <DHCP6PrefixDelegation>
    <PrefixDelegation>
      <IfIndex></IfIndex>
      <PrefixNumber></PrefixNumber>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </PrefixDelegation>
  </DHCP6PrefixDelegation>
</DHCP6>
```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6PrefixDelegation
Table type	Multi-instance table
Row name	PrefixDelegation
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
PrefixNumber	IPv6 prefix ID	N/A	Unsigned integer. Value range: 1 to 1024.	After obtaining an IPv6 prefix, the client assigns the ID to the IPv6 prefix.

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionGroup	Enables the DHCPv6 client to create a dynamic DHCPv6 option group for saving the configuration parameters, and assigns an ID to the option group	N/A	Unsigned integer. Value range: 1 to 100.	This column is available when the PrefixNumber column is set .
RapidCommit	Whether rapid address or prefix assignment is supported	N/A	Boolean: true false	This column is available when the PrefixNumber column is set .

DHCP6/DHCP6Stateless

This table contains stateless DHCPv6 configuration information.

XML structure

```

<DHCP6>
  <DHCP6Stateless>
    <Stateless>
      <IfIndex></IfIndex>
      <StatelessEnable></StatelessEnable>
    </Stateless>
  </DHCP6Stateless>
</DHCP6>

```

Table description

Item	Description
Feature name	DHCP6
Table name	DHCP6Stateless
Table type	Multi-instance table
Row name	Stateless
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
StatelessEnable	Whether the function of stateless DHCPv6 is enabled	N/A	Boolean: • true • false	N/A

DHCPC6/DHCP6ClientInfo

This table contains DHCPv6 client information.

XML structure

```
<DHCPC6>
  <DHCP6ClientInfo>
    <ClientInfo>
      <IfIndex></IfIndex>
      <Type></Type>
      <State></State>
      <IAID></IAID>
      <ClientDUID></ClientDUID>
      <ReachableViaIpv6Address></ReachableViaIpv6Address>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <DNSServer></DNSServer>
      <DomainName></DomainName>
      <PreferredLifetime></PreferredLifetime>
      <ValidLifetime></ValidLifetime>
      <T1></T1>
      <T2></T2>
    </ClientInfo>
  </DHCP6ClientInfo>
</DHCPC6>
```

Table description

Item	Description
Feature name	DHCPC6
Table name	DHCP6ClientInfo
Table type	Multi-instance table
Row name	ClientInfo

Item	Description
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface view Layer 3 aggregate interface/subinterface view VLAN interface view

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Type	Types of DHCPv6 client	Index	Enumeration: • 0—Stateless client. • 1—Stateful client requesting prefix. • 2—Stateful client requesting address.	N/A
State	Current states of the DHCPv6 client	N/A	Enumeration: • 0—IDLE. • 1—SOLICIT. • 2—REQUEST. • 3—OPEN. • 4—RENEW. • 5—REBIND. • 6—RELEASE. • 7—DECLINE. • 8—INFO-REQUESTING.	N/A
IAID	IA identifier	N/A	Hexadecimal string. Length: 1 to 10 characters.	N/A
ClientDUID	DUID of the DHCPv6 client	N/A	Hexadecimal string. Length: 4 to 64 characters.	N/A
ReachableVialpv6Address	Reachable address for the DHCPv6 client. It is the link local address of the DHCPv6 server or DHCPv6 relay agent	N/A	Hexadecimal string, colon-separated.	N/A
Ipv6Address	IPv6 address obtained.	N/A	Hexadecimal string, colon-separated.	This column is not available when the DHCPv6 client type is Stateless client.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	IPv6 prefix length obtained.	N/A	Unsigned integer. Value range: 1 to 128.	This column is not available when the DHCPv6 client type is Stateless client.
DNSServer	IPv6 address of the DNS server	N/A	String, case insensitive.	Seperated by space if there are multiple addresses. Example: 1::1 2::2 3::3.
DomainName	Domain name suffix	N/A	String, case insensitive. Length: 1 to 50 characters.	N/A
PreferredLifetime	Preferred lifetime in seconds	N/A	Unsigned integer.	N/A
ValidLifetime	Valid lifetime in seconds	N/A	Unsigned integer.	N/A
T1	T1 time value in seconds	N/A	Unsigned integer.	N/A
T2	T2 time value in seconds	N/A	Unsigned integer.	N/A

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DHCPSP

DHCPSP/DHCPSPUpdateBindingDatabase

This table is used to save current DHCP snooping entries to the file.

XML structure

```
<DHCPSP>
  <DHCPSPUpdateBindingDatabase>
    <Update></Update>
  </DHCPSPUpdateBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPUpdateBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Update	Update DHCP snooping database immediately	N/A	String.	This column must be empty.

DHCPSP/DHCPSPClearBinding

This table is used to clear DHCP snooping entries.

XML structure

```
<DHCPSP>
  <DHCPSPClearBinding>
    <ClearBinding>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
    </ClearBinding>
  </DHCPSPClearBinding>
</DHCPSP>
```

```

    <ClearBinding>
  </DHCPSPClearBinding>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPUpdateBindingDatabase
Table type	Multi-instance table
Row name	ClearBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	If Ipv4Address is empty, clears all DHCP snooping entries.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	If VLANID is empty, clears the DHCP snooping entry for the specified IP address in all Vlan.

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DHCPSP

DHCPSP/DHCPSPBindingDatabase

This table contains DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPBindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSPBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL can not be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String. case sensitive. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String. case sensitive. Length: 1 to 32 characters.	Can not be configured for the delete and remove operations.
Password	FTP password	N/A	String. case sensitive. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Can not be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCPSP/DHCPSPInterface

This table contains the configuration information on interface about using DHCP snooping.

XML structure

```

<DHCPSP>
  <DHCPSPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <BindingRecord></BindingRecord>
      <CheckMacAddress></CheckMacAddress>
      <CheckRequestMessage></CheckRequestMessage>
      <Trust></Trust>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
    </Interface>
  </DHCPSPInterface>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
BindingRecord	Whether enable the interface to record DHCP snooping entry or not.	N/A	Boolean: true false (default)	Applicable to only Layer 2 interfaces of the Restrictions.
CheckMacAddresses	Whether enable the interface to check MAC address in DHCP packets or not.	N/A	Boolean: true false(default)	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: true false(default)	Applicable to only Layer 2 interfaces of the Restrictions.
Trust	Whether configure an interface to be trusted or not.	N/A	Boolean: true false(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. Applicable to only Layer 2 interfaces of the Restrictions. No limit as default. 0 means No limit.

DHCPSP/DHCPSPOpt82CircuitIDVLAN

This table contains DHCP snooping option 82 circuit ID with VLAN configuration information.

XML structure

```

<DHCPSP>
  <DHCPSPOpt82CircuitIDVLAN>
    <VLANCircuitID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <CircuitID></CircuitID>
    </VLANCircuitID>
  </DHCPSPOpt82CircuitIDVLAN>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82CircuitIDVLAN
Table type	Multi-instance table
Row name	VLANCircuitID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
CircuitID	Option82 circuit ID string	N/A	String, case-insensitive. Length: 3 to 63 characters.	For the merge, create and replace operations, the CircuitID must be configured. For the remove and delete operations, the CircuitID can not be configured.

DHCPSP/DHCPSPOpt82RemoteIDVLAN

This table contains DHCP snooping option 82 remote ID with VLAN configuration information.

XML structure

```

<DHCPSP>
  <DHCPSPOpt82RemoteIDVLAN>
    <VLANRemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
      <Sysname></Sysname>
    </VLANRemoteID>
  </DHCPSPOpt82RemoteIDVLAN>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82RemoteIDVLAN

Item	Description
Table type	Multi-instance table
Row name	VLANRemoteID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
RemoteID	Option82 remote ID string	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.	For the merge, create and replace operations, the RemoteID and Sysname can not be configured simultaneously and RemoteID or Sysname must be configured. Can not be configured for the delete and remove operations.
Sysname	Whether the function of system name fix in option 82 remote ID is used.	N/A	Boolean: true false(default)	For the merge, create and replace operations, the RemoteID and Sysname can not be configured simultaneously and RemoteID or Sysname must be configured. Can not be configured for the delete and remove operations.

DHCPSP/DHCPSPOpt82

This table contains DHCP snooping option 82 configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82>
    <Option82>
      <IfIndex></IfIndex>
      <Option82Enable></Option82Enable>
      <Strategy></Strategy>
      <Circuit>
        <CircuitID></CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDNodeIDType></CircuitIDNodeIDType>
        <CircuitIDNodeID></CircuitIDNodeID>
        <CircuitIDFormat></CircuitIDFormat>
      </Circuit>
      <Remote>
        <RemoteIDMode></RemoteIDMode>
        <RemoteID></RemoteID>
        <RemoteIDFormat></RemoteIDFormat>
      </Remote>
    </Option82>
  </DHCPSPOpt82>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82
Table type	Multi-instance table
Row name	Option82
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Option82Enable	Whether enable theDHCP snooping to support Option 82 or not.	N/A	Boolean: true. false(default)	N/A
Strategy	Option 82 strategy type	N/A	Enumeration: 0—Drop. 1—Keep. 2—Replace (default).	N/A
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: - CircuitID - CircuitIDMode - CircuitIDNodeIDType - CircuitIDNodeID - CircuitIDFormat	N/A
CircuitID	Circuit ID user defined string	N/A	String. case insensitive. Length: 3 to 63 characters.	For the merge, create and replace operations, the CircuitID must be configured if CircuitIDMode is 2 and can't be configured if CircuitIDMode is 0 or 1.
CircuitIDMode	Circuit ID mode	N/A	Enumeration: 0—Normal (default). 1—Verbose. 2—User-defined.	It must be configured together with the CircuitIDFormat. If CircuitIDMode is configured for the remove and delete operations, CircuitID, CircuitIDNodeIDType and CircuitIDNodeID will be removed automatically.

Column name	Column description	Column type	Data type and restrictions	Remarks
CircuitIDNodeIDType	Circuit IP node-identifier type	N/A	Enumeration: • 0—Mac (default). • 1—Sysname. • 2—User-defined.	If CircuitIDNodeIDType is configured for the remove and delete operations, CircuitIDNodeID will be removed automatically. For the merge, create and replace operations, the CircuitIDNodeIDType can be configured only when CircuitIDMode is 1.
CircuitIDNodeID	Circuit ID node-identifier user defined string	N/A	String. case insensitive. Length: 1 to 50 characters.	For the merge, create and replace operations, the CircuitIDNodeID must be configured if CircuitIDNodeIDType is 2 and can't be configured if CircuitIDNodeIDType is 0 or 1.
CircuitIDFormat	Circuit ID format type	N/A	Enumeration: • 0—Hex. • 1—Ascii. • 2—Undefined.	It must be configured together with the CircuitIDMode. CircuitIDFormat must be 1 if CircuitIDMode is 2. The default CircuitIDFormat is Hex when CircuitIDMode is Normal; The default CircuitIDFormat is Undefined when CircuitIDMode is Verbose; The default CircuitIDFormat is Ascii when CircuitIDMode is User-defined.
Remote	The configuration of Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteID • RemoteIDFormat	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: • 0—Normal (default). • 1—Sysname. • 2—User-defined.	It must be configured together with the RemoteIDFormat. If RemoteIDMode is configured for the remove and delete operations, RemoteID will be removed automatically.

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteID	Remote ID user defined string	N/A	String. case insensitive. Length: 1 to 63 characters.	For the merge, create and replace operations, the RemoteID must be configured if RemoteIDMode is 2 and can't be configured if RemoteIDMode is 0 or 1.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • 0—Hex. • 1—Ascii.	It must be configured together with the RemoteIDMode. RemoteIDFormat must be 1 if RemoteIDMode is 1 or 2. The default RemoteIDFormat is Hex when RemoteIDMode is Normal; The default RemoteIDFormat is Ascii when CircuitIDMode is Sysname or User-defined;

DHCPSP/DHCPSPConfig

This table contains DHCP snooping configuration information.

XML structure

```

<DHCPSP>
  <DHCPSPConfig>
    <DHCPSPEnable></DHCPSPEnable>
  </DHCPSPConfig>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DHCPSPEnable	Whether the function of DHCP snooping is enabled.	N/A	Boolean: • true. • false(default)	N/A

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Columns	9
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XML structure	9
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Columns	9

DHCPSP

DHCPSP/DHCPSPBindingDatabase

This table contains DHCP snooping binding database information.

XML structure

```
<DHCPSP>
  <DHCPSPBindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSPBindingDatabase>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPBindingDatabase
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Object file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string	N/A	String, case sensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String, case sensitive. Length: 1 to 32 characters.
Password	FTP password	N/A	String, case sensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds.

DHCPSP/DHCPSPInterface

This table contains the configuration information on interface about using DHCP snooping.

XML structure

```
<DHCPSP>
  <DHCPSPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <BindingRecord></BindingRecord>
      <CheckMacAddress></CheckMacAddress>
      <CheckRequestMessage></CheckRequestMessage>
      <Trust></Trust>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
    </Interface>
  </DHCPSPInterface>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface Layer 3 Ethernet interface/subinterface Layer 3 aggregate interface/aggregate subinterface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
BindingRecord	Whether enable the interface to record DHCP snooping entry or not.	N/A	Boolean: true false	Applicable to only Layer 2 interfaces of the Restrictions.

Column name	Column description	Column type	Data type and restrictions	Remarks
CheckMac Address	Whether enable the interface to check MAC address in DHCP packets or not.	N/A	Boolean: • true • false	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: • true • false	Applicable to only Layer 2 interfaces of the Restrictions.
Trust	Whether configurate an interface to be trusted or not.	N/A	Boolean: • true • false	N/A
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. Applicable to only Layer 2 interfaces of the Restrictions.

DHCPSP/DHCPSPOpt82CircuitIDVLAN

This table contains DHCP snooping option 82 circuit ID with VLAN configuration information.

XML structure

```

<DHCPSP>
  <DHCPSPOpt82CircuitIDVLAN>
    <VLANCircuitID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <CircuitID></CircuitID>
    </VLANCircuitID>
  </DHCPSPOpt82CircuitIDVLAN>

```

</DHCPSP>

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82CircuitIDVLAN
Table type	Multi-instance table
Row name	VLANCircuitID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
CircuitID	Option82 circuit ID string	N/A	String, case-insensitive. Length: 3 to 63 characters. The string must be ASCII string.

DHCPSP/DHCPSPOpt82RemoteIDVLAN

This table contains DHCP snooping option 82 remote ID with VLAN configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPOpt82RemoteIDVLAN>
    <VLANRemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
      <Sysname></Sysname>
    </VLANRemoteID>
  </DHCPSPOpt82RemoteIDVLAN>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP

Item	Description
Table name	DHCPSPOpt82RemoteIDVLAN
Table type	Multi-instance table
Row name	VLANRemoteID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
RemoteID	Option82 remote ID string	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must be ASCII string.
Sysname	Whether the function of system name fix in option 82 remote ID is used.	N/A	Boolean: true false

DHCPSP/DHCPSPOpt82

This table contains DHCP snooping option 82 configuration information.

XML structure

```

<DHCPSP>
  <DHCPSPOpt82>
    <Option82>
      <IfIndex></IfIndex>
      <Option82Enable></Option82Enable>
      <Strategy></Strategy>
      <Circuit>
        <CircuitID></CircuitID>
        <CircuitIDMode></CircuitIDMode>
        <CircuitIDNodeIDType></CircuitIDNodeIDType>
        <CircuitIDNodeID></CircuitIDNodeID>
        <CircuitIDFormat></CircuitIDFormat>
      </Circuit>
      <Remote>
        <RemoteIDMode></RemoteIDMode>
        <RemoteID></RemoteID>
        <RemoteIDFormat></RemoteIDFormat>
      </Remote>
    </Option82>
  </DHCPSPOpt82>
</DHCPSP>

```

```

    </Remote>
  </Option82>
</DHCPSPOpt82>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPOpt82
Table type	Multi-instance table
Row name	Option82
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
Option82Enable	Whether enable the DHCP snooping to support Option 82 or not.	N/A	Boolean: true false
Strategy	Option 82 strategy type	N/A	Enumeration: 0—Drop. 1—Keep. 2—Replace.
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: - CircuitID - CircuitIDMode - CircuitIDNodeIDType - CircuitIDNodeID CircuitIDFormat
CircuitID	Circuit ID user defined string	N/A	String. case insensitive. Length: 3 to 63 characters.
CircuitIDMode	Circuit ID mode	N/A	Enumeration: 0—Normal. 1—Verbose. 2—User-defined.
CircuitIDNodeIDType	Circuit IP node-identifier type	N/A	Enumeration: 0—Mac. 1—Sysname. 2—User-defined.

Column name	Column description	Column type	Data type and restrictions
CircuitIDNodeID	Circuit ID node-identifier user defined string	N/A	String. case insensitive. Length: 1 to 50 characters.
CircuitIDFormat	Circuit ID format type	N/A	Enumeration: • 0—Hex. • 1—Ascii. • 2—Undefined.
Remote	The configuration of Remote ID sub-option	Data structure	Members include: • RemoteIDMode • RemoteID • RemoteIDFormat
RemoteIDMode	Remote ID mode	N/A	Enumeration: • 0—Normal. • 1—Sysname. • 2—User-defined.
RemoteID	Remote ID user defined string	N/A	String. case insensitive. Length: 1 to 63 characters.
RemoteIDFormat	Remote ID format type	N/A	Enumeration: • 0—Hex. • 1—Ascii.

DHCPSP/DHCPSPBinding

This table contains DHCP snooping entries information.

XML structure

```

<DHCPSP>
  <DHCPSPBinding>
    <Binding>
      <Ipv4Address></Ipv4Address>
      <VLANID></VLANID>
      <SVLANID></SVLANID>
      <MacAddress></MacAddress>
      <Lease></Lease>
      <IfIndex></IfIndex>
    </Binding>
  </DHCPSPBinding>
</DHCPSP>

```

Table description

Item	Description
Feature name	DHCPSP

Item	Description
Table name	DHCPSPBinding
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
SVLANID	Second VLAN ID	Index	Unsigned integer. Value range: 1 to 4094 and 65535. 65535 means do not have SVLANID.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
Lease	Left Lease time	N/A	Unsigned integer.
IfIndex	Interface index	N/A	Unsigned integer.

DHCPSP/DHCPSPConfig

This table contains DHCP snooping configuration information.

XML structure

```
<DHCPSP>
  <DHCPSPConfig>
    <DHCPSPEnable></DHCPSPEnable>
  </DHCPSPConfig>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DHCPSPEnable	Whether the function of DHCP snooping is enabled.	N/A	Boolean: • true • false

DHCPSP/DHCPSPSpecification

This table contains DHCP snooping specification information.

XML structure

```
<DHCPSP>
  <DHCPSPSpecification>
    <RateLimitMinNum></RateLimitMinNum>
    <RateLimitMaxNum></RateLimitMaxNum>
  </DHCPSPSpecification>
</DHCPSP>
```

Table description

Item	Description
Feature name	DHCPSP
Table name	DHCPSPSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitMinNum	The minimum rate number can be configured	N/A	Unsigned integer.	N/A
RateLimitMaxNum	The maximum rate number can be configured	N/A	Unsigned integer.	0 means that rate limit isn't supported.

Contents

DHCPSP6	1
DHCPSP6/DHCPSP6UpdateBindingDatabase	1
XML structure	1
Table description	1
Columns	1
DHCPSP6/DHCPSP6ClearBinding	1
XML structure	1
Table description	2
Columns	2

DHCPSP6

DHCPSP6/DHCPSP6UpdateBindingDatabase

This table is used to save current DHCP snooping entries to the file.

XML structure

```
<DHCPSP6>
  <DHCPSP6UpdateBindingDatabase>
    <Update></Update>
  </DHCPSP6UpdateBindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6UpdateBindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Update	Update DHCP snooping database immediately	N/A	Boolean: true—Enabled. false—Disabled.	This column must be empty.

DHCPSP6/DHCPSP6ClearBinding

This table is used to clear DHCP snooping entries.

XML structure

```
<DHCPSP6>
  <DHCPSP6ClearBinding>
    <ClearBinding>
      <Ipv6Address></Ipv6Address>
      <VLANID></VLANID>
    </ClearBinding>
  </DHCPSP6ClearBinding>
</DHCPSP6>
```

```

        </ClearBinding>
    </DHCPSP6ClearBinding>
</DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6ClearBinding
Table type	Single-instance table
Row name	ClearBinding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	If Ipv6Address is empty, clears all DHCP snooping entries.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	If VLANID is empty, clears the DHCP snooping entry for the specified IP address in all Vlan.

Contents

DHCPSP6	1
DHCPSP6/DHCPSP6BindingDatabase	1
XML structure	1
Table description	1
Columns	1
DHCPSP6/DHCPSP6Interface	2
XML structure	2
Table description	3
Columns	3
DHCPSP6/DHCPSP6OptionInterfaceID	4
XML structure	4
Table description	4
Columns	5
DHCPSP6/DHCPSP6OptionRemoteID	5
XML structure	5
Table description	5
Columns	6
DHCPSP6/DHCPSP6OptionEnable	6
XML structure	6
Table description	7
Columns	7
DHCPSP6/DHCPSP6Config	7
XML structure	7
Table description	7
Columns	8

DHCPSP6

DHCPSP6/DHCPSP6BindingDatabase

This table contains IPv6 DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6BindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSP6BindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6BindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.	For the merge, create and replace operations, FileName and URL can not be configured simultaneously.

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	Object URL string	N/A	String. case sensitive. Length: 1 to 255 characters.	Specifies the URL of a remote file. Do not include a username or password in the URL. Case sensitivity and the supported format type of the path depend on the server. If URL is configured for the delete and remove operations, Username and Password will be removed automatically.
Username	FTP username	N/A	String. case sensitive. Length: 1 to 32 characters.	Can not be configured for the delete and remove operations.
Password	FTP password	N/A	String. case sensitive. Length: 1 to 32 characters.	Only plaintext password is supported. For the merge, create and replace operations, Password must be configured with Username. Can not be configured for the delete and remove operations.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.	N/A

DHCPSP6/DHCPSP6Interface

This table contains the configuration information on interface about using IPv6 DHCP snooping.

XML structure

```

<DHCPSP6>
  <DHCPSP6Interface>
    <Interface>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
      <CheckRequestMessage></CheckRequestMessage>
      <BindingRecord></BindingRecord>
      <Trust></Trust>
    </Interface>
  </DHCPSP6Interface>
</DHCPSP6>

```


Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Interface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface/S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of IPv6 DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive IPv6 DHCP packets, in Kbps.	N/A	Unsigned integer. Value range: 0, RateLimitMinNum to RateLimitMaxNum.	Values of RateLimitMinNum and RateLimitMaxNum depend on the device model. No limit as default. 0 means No limit.
BindingRecord	Whether enable the interface to record IPv6 DHCP snooping entry or not.	N/A	Boolean: • true. • false(default)	N/A
CheckRequestMessage	Whether enable the interface to check request message in IPv6 DHCP packets or not.	N/A	Boolean: • true. • false(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Trust	Whether configure an interface to be trusted or not.	N/A	Boolean: true. false(default)	N/A

DHCPSP6/DHCPSP6OptionInterfaceID

This table contains IPv6 DHCP snooping option 18 DUID configuration information.

XML structure

```

<DHCPSP6>
  <DHCPSP6OptionInterfaceID>
    <InterfaceID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
    </InterfaceID></DHCPSP6OptionInterfaceID>
  </DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionInterfaceID
Table type	Multi-instance table
Row name	InterfaceID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
InterfaceID	Option18 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	For the merge, create and replace operations, the InterfaceID must be configured. For the remove and delete operations, the InterfaceID can not be configured.

DHCPSP6/DHCPSP6OptionRemoteID

This table contains IPv6 DHCP snooping option 37 DUID configuration information.

XML structure

```

<DHCPSP6>
  <DHCPSP6OptionRemoteID>
    <RemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <RemoteID></RemoteID>
    </RemoteID>
  </DHCPSP6OptionRemoteID>
</DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionRemoteID
Table type	Multi-instance table

Item	Description
Row name	RemoteID
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
RemoteID	Option37 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	For the merge, create and replace operations, the RemoteID must be configured. For the remove and delete operations, the RemoteID can not be configured.

DHCPSP6/DHCPSP6OptionEnable

This table contains IPv6 DHCP snooping option 82 configuration information.

XML structure

```

<DHCPSP6>
  <DHCPSP6OptionEnable>
    <OptionEnable>
      <IfIndex></IfIndex>
      <InterfaceIDEnable></InterfaceIDEnable>
      <RemoteIDEnable></RemoteIDEnable>
    </OptionEnable>
  </DHCPSP6OptionEnable>
</DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionEnable
Table type	Multi-instance table
Row name	OptionEnable
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
InterfaceIDEnable	Whether enable the IPv6 DHCP snooping to support InterfaceID or not.	N/A	Boolean: true. false(default)
RemoteIDEnable	Whether enable the IPv6 DHCP snooping to support RemoteID or not.	N/A	Boolean: true. false(default)

DHCPSP6/DHCPSP6Config

This table contains IPv6 DHCP snooping configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Config>
    <DHCPSP6Enable></DHCPSP6Enable>
  </DHCPSP6Config>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6

Item	Description
Table name	DHCPSP6Config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DHCPSPEnable	Enable DHCP snooping	N/A	Boolean: true. false(default)

Contents

DHCPSP6	1
DHCPSP6/DHCPSP6BindingDatabase	1
XML structure	1
Table description	1
Columns	1
DHCPSP6/DHCPSP6Interface	2
XML structure	2
Table description	2
Columns	2
DHCPSP6/DHCPSP6OptionInterfaceID	3
XML structure	3
Table description	3
Columns	4
DHCPSP6/DHCPSP6OptionRemoteID	4
XML structure	4
Table description	4
Columns	4
DHCPSP6/DHCPSP6OptionEnable	5
XML structure	5
Table description	5
Columns	5
DHCPSP6/DHCPSP6Binding	6
XML structure	6
Table description	6
Columns	6
DHCPSP6/DHCPSP6Config	7
XML structure	7
Table description	7
Columns	7
DHCPSP6/DHCPSP6Specification	7
XML structure	7
Table description	8
Columns	8

DHCPSP6

DHCPSP6/DHCPSP6BindingDatabase

This table contains IPv6 DHCP snooping binding database configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6BindingDatabase>
    <FileName></FileName>
    <URL></URL>
    <Username></Username>
    <Password></Password>
    <UpdateInterval></UpdateInterval>
  </DHCPSP6BindingDatabase>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6BindingDatabase
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Database file name	N/A	String, case-insensitive. Length: 1 to 255 characters.
URL	Object URL string.	N/A	String. case sensitive. Length: 1 to 255 characters.
Username	FTP username	N/A	String. case sensitive. Length: 1 to 32 characters.
Password	FTP password	N/A	String. case sensitive. Length: 1 to 32 characters.
UpdateInterval	Auto update interval	N/A	Unsigned integer. Value range: 60 to 864000 seconds. Default: 300 seconds.

DHCPSP6/DHCPSP6Interface

This table contains the configuration information on interface about using IPv6 DHCP snooping.

XML structure

```
<DHCPSP6>
  <DHCPSP6Interface>
    <Interface>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
      <RateLimitNum></RateLimitNum>
      <CheckRequestMessage></CheckRequestMessage>
      <BindingRecord></BindingRecord>
      <Trust></Trust>
    </Interface>
  </DHCPSP6Interface>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Interface
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of DHCP snooping entries for an interface to learn	N/A	Unsigned integer. Value range: 0 to 4294967295.	No limit as default. 0 means No limit.
RateLimitNum	The maximum rate for an interface to receive DHCP packets, in Kbps	N/A	Unsigned integer.	The value range depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
BindingRecord	Whether enable the interface to record DHCP snooping entry or not	N/A	Boolean: • true. • false(default)	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not	N/A	Boolean: • true. • false(default)	N/A
Trust	Whether configurate an interface to be trusted or not	N/A	Boolean: • true. • false(default)	N/A

DHCPSP6/DHCPSP6OptionInterfaceID

This table contains IPv6 DHCP snooping option 18 DUID configuration information.

XML structure

```

<DHCPSP6>
  <DHCPSP6OptionInterfaceID>
    <InterfaceID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <InterfaceID></InterfaceID>
    </InterfaceID>
  </DHCPSP6OptionInterfaceID>
</DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionInterfaceID
Table type	Multi-instance table
Row name	InterfaceID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
InterfaceID	Option18 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	N/A

DHCPSP6/DHCPSP6OptionRemoteID

This table contains IPv6 DHCP snooping option 37 DUID configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6OptionRemoteID>
    <RemoteID>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
    </RemoteID>
  </DHCPSP6OptionRemoteID>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionRemoteID
Table type	Multi-instance table
Row name	RemoteID
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 2 interfaces are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means don't specify the VLAN.
RemoteID	Option37 DUID string	N/A	String, case-insensitive. Length: 1 to 128 characters.	N/A

DHCPSP6/DHCPSP6OptionEnable

This table contains IPv6 DHCP snooping option 82 configuration information.

XML structure

```

<DHCPSP6>
  <DHCPSP6OptionEnable>
    <OptionEnable>
      <IfIndex></IfIndex>
      <InterfaceIDEnable></InterfaceIDEnable>
      <RemoteIDEnable></RemoteIDEnable>
    </OptionEnable>
  </DHCPSP6OptionEnable>
</DHCPSP6>

```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6OptionEnable
Table type	Multi-instance table
Row name	OptionEnable
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
InterfaceIDEnable	Enable the DHCP snooping to support InterfaceID	N/A	Boolean: true—Enabled. false—Disabled (default).
RemoteIDEnable	Enable the DHCP snooping to support RemoteID	N/A	Boolean: true—Enabled. false—Disabled (default).

DHCPSP6/DHCPSP6Binding

This table contains IPv6 DHCP snooping entries information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Binding>
    <Binding>
      <Ipv6Address></Ipv6Address>
      <VLANID></VLANID>
      <SVLANID></SVLANID>
      <MacAddress></MacAddress>
      <Lease></Lease>
      <IfIndex></IfIndex>
    </Binding>
  </DHCPSP6Binding>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Binding
Table type	Multi-instance table
Row name	Binding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Ipv6Address	IPv6 address	Index	String, dotted decimal notation.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
SVLANID	Second VLAN ID	Index	Unsigned integer. Value range: 1 to 4094 and 65535. 65535 means no SVLANID.
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.
Lease	Left Lease time	N/A	Unsigned integer.
IfIndex	Interface index	N/A	Unsigned integer.

DHCPSP6/DHCPSP6Config

This table contains IPv6 DHCP snooping configuration information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Config>
    <DHCPSP6Enable></DHCPSP6Enable>
  </DHCPSP6Config>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Config
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DHCPSP6Enable	Enable DHCP snooping	N/A	Boolean: • true. • false(default)

DHCPSP6/DHCPSP6Specification

This table contains DHCP snooping specification information.

XML structure

```
<DHCPSP6>
  <DHCPSP6Specification>
    <RateLimitMinNum></RateLimitMinNum>
    <RateLimitMaxNum></RateLimitMaxNum>
  </DHCPSP6Specification>
</DHCPSP6>
```

Table description

Item	Description
Feature name	DHCPSP6
Table name	DHCPSP6Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitMinNum	The minimum rate number can be configured	N/A	Unsigned integer.	N/A
RateLimitMaxNum	The maximum rate number can be configured	N/A	Unsigned integer.	0 means that rate limit isn't supported.

Contents

Diagnostic	1
Diagnostic/CPUHistory	1
XML structure.....	1
Table description	1
Columns	1
Diagnostic/CPUAlert.....	2
XML structure.....	2
Table description	2
Columns	3
Diagnostic/MemoryAlert.....	3
XML structure.....	3
Table description	4
Columns	4
Diagnostic/CoreAlert.....	5
XML structure.....	5
Table description	5
Columns	6

Diagnostic

Diagnostic/CPUHistory

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUHistory>
    <CPU>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MoniterEnable></MoniterEnable>
      <HistroyCycleInSecond></HistroyCycleInSecond>
      <CPUUsageLimit></CPUUsageLimit>
    </CPU>
  </CPUHistory>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUHistory
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member of the device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	ID of the CPU	Index	Unsigned integer. Value range: 0 to 65535.
MoniterEnable	CPU monitoring usage	N/A	Enumeration: 1—Disabled. 2—Enabled.
HistoryCycleInSecond	CPU sampling interval in seconds	N/A	Enumeration: 5—5 seconds. 60—60 seconds. 300—300 seconds.
CPUUsageLimit	CPU threshold (%) usage	N/A	Unsigned integer. Value range: 0 to 100.

Diagnostic/CPUAlert

This table contains usage alarm settings for logical CPUs.

XML structure

```

<Diagnostic>
  <CPUAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MinorThreshold></MinorThreshold >
      <WarningThreshold></WarningThreshold>
      <RecoveryThreshold></RecoveryThreshold>
    </Alert>
  </CPUAlert>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical CPUs
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
MinorThreshold	CPU usage minor threshold (%)	N/A	Unsigned integer. Value range: 1 to 100.
WarningThreshold	CPU usage severe alarm threshold (%)	N/A	Unsigned integer Value range: 1 to 100
RecoveryThreshold	CPU usage recovery threshold (%)	N/A	Unsigned integer Value range: 0 to 99

Diagnostic/MemoryAlert

This table contains free-memory alarm settings.

XML structure

```
<Diagnostic>
  <MemoryAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
      <EarlyWarningThreshold></EarlyWarningThreshold>
      <SecureThreshold></SecureThreshold>
    </Alert>
  </MemoryAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	MemoryAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	For a create or replace operation, all non-index columns are required. For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit of the threshold	N/A	Enumeration: MB Percentage	N/A
MinorThreshold	Minor insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the minor alarm feature
SevereThreshold	Severe insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the severe alarm feature.
CriticalThreshold	Critical insufficient-free-memory threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the critical alarm feature.

Column name	Column description	Column type	Data type and restrictions	Remarks
NormalThreshold	Normal free-memory state threshold	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	N/A
EarlyWarningThreshold	Early-warning threshold for insufficient-free-memory condition	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	Setting this threshold to 0 disables the early warning feature.
SecureThreshold	Early-warning-removed threshold for insufficient-free-memory condition	N/A	Unsigned integer. Value range: 0 to 100 if the unit is percentage.	N/A

Diagnostic/CoreAlert

This table contains usage alarm settings for logical Cores.

XML structure

```

<Diagnostic>
  <CoreAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CoreID></CoreID>
      <CoreThreshold></CoreThreshold>
    </Alert>
  </CoreAlert>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	CoreAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical Cores
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the card	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CoreID	ID of the Core	Index	Unsigned integer. Value range: 0 to 65535.
CoreThreshold	CPU usage threshold (%)	N/A	Unsigned integer Value range: 2 to 100

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Diagnostic

Diagnostic/CPUHistory

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUHistory>
    <CPU>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CPUUsage></CPUUsage>
      <Last1mUsage></Last1mUsage>
      <Last5mUsage></Last5mUsage>
      <MoniterEnable></MoniterEnable>
      <HistroyCycleInSecond></HistroyCycleInSecond>
      <CPUUsageLimit></CPUUsageLimit>
      <CPUHistory></CPUHistory>
    </CPU>
  </CPUHistory>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUHistory
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.
Last1mUsage	Usage in the most recent 1-minute interval (%)	N/A	Unsigned integer. Value range: 0 to 100.
Last5mUsage	Usage in the most recent 5-minute interval (%)	N/A	Unsigned integer. Value range: 0 to 100.
MonitorEnabled	CPU usage monitoring	N/A	Enumeration: 1—Disabled. 2—Enabled.
HistoryCycleInSecond	CPU usage sampling interval in seconds	N/A	Enumeration: 5—5 seconds. 60—60 seconds. 300—300 seconds.
CPUUsageLimit	CPU usage threshold (%)	N/A	Unsigned integer. Value range: 0 to 100.
CPUHistory	Historical CPU usage statistics	N/A	String of up to 60 integers. Each integer represents the CPU usage in a CPU usage sampling interval. Length: 0 to 304 characters. Format: HH,HH,HH,HH,HH,HH

Diagnostic/ProcessesCPUHistory

This table contains historical CPU usage statistics by process ID.

XML structure

```

<Diagnostic>
  <ProcessesCPUHistory>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <ProcessJobID></ProcessJobID>
      <ProcessName></ProcessName>
      <CPUHistoryProcess></CPUHistoryProcess>
    </Process>
  </ProcessesCPUHistory>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesCPUHistory
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
ProcessJobID	Process ID	Index	Unsigned integer. Value range: 1 to 2147483647
ProcessName	Process name	N/A	String. Length: 0 to 128 characters.
CPUHistoryProcess	Historical CPU usage statistics by process ID	N/A	String of up to 60 integers. Each integer represents the CPU usage in a CPU usage sampling interval. Length: 0 to 304 characters. Format: HH,HH,HH,HH,HH,HH

Diagnostic/CPUUsage(currently not available)

This table contains usage information about the logical CPUs.

XML structure

```
<Diagnostic>
  <CPUUsage>
    <CPU>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
```

```

    <CPUUsage></CPUUsage>
  <Core>
    <CoreID></CoreID>
    <CPUUsage></CPUUsage>
    <Idle></Idle>
    <User></User>
    <Kernel></Kernel>
    <Interrupt></Interrupt>
  </Core>
</CPU>
</CPUUsage>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUUsage
Table type	Multi-instance table
Row name	CPU
Restrictions	Available only for logical CPUs

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUUsage	CPU usage (%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Core	CPUInfo of core	Data structure	Members include: - CoreID - CPUUsage - Idle - User - Kernel - Interrupt	Contain all core of the cpu.
CoreID	ID of the core	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
CPUUsage	Core usage (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Idle	CPU idle time ratio (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
User	Ratio of time for processes in user mode to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Kernel	Ratio of time for processes in kernel mode to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Interrupt	Ratio of time for interrupts to total CPU time (%)	N/A	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34

Diagnostic/ProcessesCPU(currently not available)

This table contains CPU usage information for processes.

XML structure

```

<Diagnostic>
  <ProcessesCPU>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <JobID></JobID>
      <Name></Name>
      <CPUUsage></CPUUsage>
      <Priority></Priority>
      <State></State>
      <FDs></FDs>
      <Memory></Memory>
      <RunTime></RunTime>
    </Process>
  </ProcessesCPU>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesCPU
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
JobID	Job ID	Index	Unsigned integer. Value range: 1 to 2147483647	N/A
Name	Process name	N/A	String. Length: 0 to 255 characters.	N/A
CPUUsage	CPU usage of the process	N/A	Double. Value range: 0 to 100. Formats: %.2f	N/A
Priority	Thread priority	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
State	Status of the process	N/A	Enumeration: • R—Running. • S—Sleeping. • T—Traced or stopped. • D—Uninterruptible sleep. • Z—Zombie.	N/A
FDs	File descriptions for the process	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Memory	Process memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RunTime	Running time of the process	N/A	String. Formats: - HH:MM:SS Runtime < 100h - HHh Runtime >= 100h	N/A

Diagnostic/CPUAlert

This table contains cpu usage alarm information about the logical CPUs.

XML structure

```

<Diagnostic>
  <CPUAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <MinorThreshold></MinorThreshold>
      <WarningThreshold></WarningThreshold>
      <RecoveryThreshold></RecoveryThreshold>
      <CurrentState></CurrentState>
    </Alert>
  </CPUAlert>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	Available only for logical CPU

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
MinorThreshold	CPU usage minor threshold (%)	N/A	Unsigned integer. Value range: 1 to 100.
WarningThreshold	CPU usage severe threshold (%)	N/A	Unsigned integer. Value range: 1 to 100
RecoveryThreshold	CPU usage RecoveryThreshold (%)	N/A	Unsigned integer Value range: 0 to 99
CurrentState	Current alarm status	N/A	Enumeration: • Normal • Minor • Severe

Diagnostic/Memories

This table contains memory information.

XML structure

```

<Diagnostic>
  <Memories>
    <Memory>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Total></Total>
      <Used></Used>
      <Free></Free>
      <FreeRatio></FreeRatio>
      <Buffers></Buffers>
      <Cached></Cached>
      <CommitLimit></CommitLimit>
      <CommittedAS></CommittedAS>
      <VmallocTotal></VmallocTotal>
      <VmallocUsed></VmallocUsed>
      <VmallocChunk></VmallocChunk>
      <SwapTotal></SwapTotal>
      <SwapFree></SwapFree>
      <LowTotal></LowTotal>
      <LowFree></LowFree>
      <HighTotal></HighTotal>
    
```

```

        <HighFree></HighFree>
    </Memory>
</Memories>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Index	Unsigned integer. Value range: 0 to 65535.
Total	Total memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Used	Used memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Free	Free memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
FreeRatio	Free memory ratio (%)	N/A	Double. Value range: 0 to 100. Formats: %.1f
Buffers	Memory space used for buffers (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Cached	Memory space used for cache (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
CommitLimit	Memory space currently	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	available for allocation (KB)		Value range: 0 to $2^{64} - 1$.
CommittedAS	Memory space allocated by processes (KB)	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
VmallocTotal	Total allocated virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
VmallocUsed	Used virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
VmallocChunk	Free virtual memory space (KB)	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
SwapTotal	Total memory space used for swapping (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
SwapFree	Free memory space dedicated for swapping (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
LowTotal	Total low-memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
LowFree	Free low-memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
HighTotal	Total high-memory size (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
HighFree	Free high-memory space (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.

Diagnostic/ProcessesMemory (currently not available)

This table contains memory information about the Processes.

XML structure

```
<Diagnostic>
  <ProcessesMemory>
    <Process>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <JID></JID>
      <Name></Name>
```

```

    <Text></Text>
    <Data></Data>
    <Stack></Stack>
    <Dynamic></Dynamic>
  </Process>
</ProcessesMemory>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	ProcessesMemory
Table type	Multi-instance table
Row name	Process
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
JID	Job ID of the process	Index	Unsigned integer. Value range: 1 to 2147483647
Name	Process name	N/A	String. Length: 0 to 255 characters.
Text	Memory space for the text segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Data	Memory space for the data segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Stack	Memory space for the stack segment (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dynamic	Memory space for dynamic allocation (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.

Diagnostic/SlubInfo (currently not available)

This table contains memory information about the Slub.

XML structure

```
<Diagnostic>
  <SlubInfo>
    <Slub>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Name></Name>
      <Active></Active>
      <Number></Number>
      <Size></Size>
      <Align></Align>
      <Slab></Slab>
      <PgSlab></PgSlab>
      <ASlabs></ASlabs>
      <NSlabs></NSlabs>
    </Slub>
  </SlubInfo>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	SlubInfo
Table type	Multi-instance table
Row name	Slub
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
			Value range: 0 to 65535.
Name	Target name	Index	String. Length: 1 to 255 characters.
Active	Number of active targets	N/A	Unsigned integer. Value range: 0 to 4294967295.
Number	Total number of targets	N/A	Unsigned integer. Value range: 0 to 4294967295.
Size	Target memory space (KB)	N/A	Unsigned integer. Value range: 0 to 2147483647.
Align	Aligned memory	N/A	Unsigned integer. Value range: 0 to 2147483647.
Slab	Number of targets in one slab	N/A	Unsigned integer. Value range: 0 to 2147483647.
PgSlab	Number of memory pages for one slab	N/A	Unsigned integer. Value range: 0 to 2147483647.
ASlabs	Number of active slabs	N/A	Unsigned integer. Value range: 0 to 4294967295.
NSlabs	Total number of slabs	N/A	Unsigned integer. Value range: 0 to 4294967295.

Diagnostic/MemoryAlert

This table contains free-memory alarm settings and status information.

XML structure

```

<Diagnostic>
  <MemoryAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
      <CriticalThreshold></CriticalThreshold>
      <NormalThreshold></NormalThreshold>
      <EarlyWarningThreshold></EarlyWarningThreshold>
      <SecureThreshold></SecureThreshold>
      <CurrentState></CurrentState>
    </Alert>
  </MemoryAlert>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	MemoryAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Unit	Unit for memory thresholds	N/A	Enumeration: • MB • Percentage	N/A
MinorThreshold	Minor insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the minor alarm feature.
SevereThreshold	Severe insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the severe alarm feature.
CriticalThreshold	Critical insufficient-free-memory threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the critical alarm feature.

Column name	Column description	Column type	Data type and restrictions	Remarks
NormalThreshold	Normal free-memory state threshold	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	N/A
EarlyWarningThreshold	Early-warning threshold for insufficient-free-memory condition	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	Setting this threshold to 0 disables the early warning feature.
SecureThreshold	Early-warning-removed threshold for insufficient-free-memory condition	N/A	Unsigned integer. When unit is percentage, value range: 0 to 100.	N/A
CurrentState	Current memory alarm status	N/A	Enumeration: • Minor • Severe • Critical • Normal • EarlyWarning • Secure	N/A

Diagnostic/CoreAlert

This table contains core alarm settings and status information.

XML structure

```

<Diagnostic>
  <CoreAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CoreID></CoreID>
      <CoreThreshold></CoreThreshold>
      <Current5SUsage></Current5SUsage>
      <Current1MUsage></Current1MUsage>
      <Current5MUsage></Current5MUsage>
      <LastState></LastState>
    </Alert>
  </CoreAlert>
</Diagnostic>

```

Table description

Item	Description
Feature name	Diagnostic
Table name	CoreAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the card	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
CoreID	ID of the Core	Index	Unsigned integer. Value range: 0 to 65535.
CoreThreshold	Core usage Threshold (%)	N/A	Unsigned integer. Value range: 2 to 100 Default: 4294967295
Current5SUsage	Core usage in the most recent 5-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
Current1MUsage	Core usage in the most recent 12 five-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
Current5MUsage	Core usage in the most recent 60 five-second interval (%)	N/A	Unsigned integer. Value range: 0 to 100
LastState	Previous core alarm status	N/A	Enumeration: • Normal • Warning

Diagnostic/CPUGroups

This table contains usage information about the logical CPU groups.

XML structure

```
<Diagnostic>
  <CPUGroups>
    <CPUGroup>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <GroupID></GroupID>
      <GroupName></GroupName>
      <CPUUsage></CPUUsage>
      <Last1mUsage></Last1mUsage>
      <Last5mUsage></Last5mUsage>
    </CPUGroup>
  </CPUGroups>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	CPUGroups
Table type	Multi-instance table
Row name	CPUGroup
Restrictions	Available only for logical CPU groups

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Index	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
GroupID	ID of CPU group	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
			For example: 0 means control plane, 1 means data plane
GroupName	Name of CPU group	N/A	String. Length: 1 to 64 characters.
CPUUsage	Usage in the most recent 5-second interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last1mUsage	Usage in the most recent 1-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last5mUsage	Usage in the most recent 5-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.

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Diagnostics event stream

CPUEvent event

This event is used to report CPU alarm information.

XML structure for event subscription

```
<CPUEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </CPU>
</CPUEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CPUEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <CPU>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </CPU>
      </CPUEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CPUEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the	Unsigned integer.	No	N/A

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
	member device where the entity resides	Value range: 0 to 65535.		
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```

<CPUEvent>
  <CPU>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Description></Description>
    <CPUUsage></CPUUsage>
    <Core>
      <CoreID></CoreID>
      <CPUUsage></CPUUsage>
      <Idle></Idle>
      <User></User>
      <Kernel></Kernel>
      <Interrupt></Interrupt>
    </Core>
    <Process>
      <JobID></JobID>
      <PID></PID>
      <Name></Name>
      <CPUUsage></CPUUsage>
      <Priority></Priority>
      <State></State>
      <FDs></FDs>
      <Memory></Memory>
      <RunTime></RunTime>
    </Process>
  </CPU>
</CPUEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CPUEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">

```

```

<CPU>
  <Chassis>0</Chassis>
  <Slot>0</Slot>
  <CPUID>0</CPUID>
  <Description>CPU_THRESHOLD</Description>
  <CPUUsage>50</CPUUsage>
  <Core>
    <CoreID>0</CoreID>
    <CPUUsage>11.00</CPUUsage>
    <Idle>89.00</Idle>
    <User>4.00</User>
    <Kernel>5.00</Kernel>
    <Interrupt>2.00</Interrupt>
  </Core>
  .....
  <Core>
    <CoreID>7</CoreID>
    <CPUUsage>13.00</CPUUsage>
    <Idle>87.00</Idle>
    <User>5.00</User>
    <Kernel>5.00</Kernel>
    <Interrupt>3.00</Interrupt>
  </Core>
  <Process>
    <JobID>84</JobID>
    <PID>84</PID>
    <Name>diagd</Name>
    <CPUUsage>0.03</CPUUsage>
    <Priority>120</Priority>
    <State>R</State>
    <FDs>18</FDs>
    <Memory>10384</Memory>
    <RunTime>00:00:56</RunTime>
  </Process>
  .....
  <Process>
    <JobID>86</JobID>
    <PID>86</PID>
    <Name>syslogd</Name>
    <CPUUsage>0.03</CPUUsage>
    <Priority>120</Priority>
    <State>S</State>
    <FDs>30</FDs>
    <Memory>12984</Memory>
    <RunTime>00:00:36</RunTime>
  </Process>
</CPU>
</CPUEvent>

```

</notification>

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
Description	CPU event description.	Enumeration: • CPU_THRESHOLD • CPU_THRESHOLD_RECOVERY • CPU_MINOR_THRESHOLD • CPU_MINOR_RECOVER	N/A
CPUUsage	CPU usage (%)	Unsigned integer. Value range: 0 to 100.	N/A
Core	CPUInfo of core	Members include: • CoreID • CPUUsage • Idle • User • Kernel • Interrupt	N/A
CoreID	Core ID	Unsigned integer. Value range: 0 to 65535.	N/A
CPUUsage	Core CPU usage (%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Idle	CPU idle time ratio(%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
User	Ratio of the time of processes executing in user mode to CPU total time(%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Kernel	Ratio of the time of processes executing in kernel mode to CPU total time (%)	Double. Value range: 0 to 100. Formats: %.2f	Accurate to the second decimal place. Example: 12.34
Interrupt	Ratio of the time of interrupt to total cpu	Double. Value range: 0 to 100.	Accurate to the second decimal place.

Column name	Column description	Data type and restrictions	Remarks
	time.	Formats: %.2f	Example: 12.34
Process	CPUInfo of process	Members include: • JobID • PID • Name • CPUUsage • Priority • State • FDs • Memory • RunTime	N/A
JobID	Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
PID	Process ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
Name	Process name	String. Length: 1 to 255 characters.	Only report the top 10 cpusage processes.
CPUUsage	CPUUsage of Process	Double. Value range: 0 to 100. Formats: %.2f	N/A
Priority	Process priority	Unsigned integer. Value range: 0 to 65535.	N/A
State	Running state of process	Enumeration: • R—Running. • S—Sleeping. • T—Traced or stopped. • D—Uninterruptible sleep. • Z—Zombie.	N/A
FDs	File descriptions of process	Unsigned integer. Value range: 0 to 4294967295.	N/A
Memory	Size of the process memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
RunTime	Runtime of process	String. Formats: • HH:MM:SS Runtime < 100h • HHh Runtime >= 100h	N/A

MemoryEvent event

This event is used to report memory alarm information.

XML structure for event subscription

```
<MemoryEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Memory>
</MemoryEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <MemoryEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Memory>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Memory>
      </MemoryEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	MemoryEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	No
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<MemoryEvent>
  <Memory>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <CurrentState></CurrentState>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <FreeRatio></FreeRatio>
    <LowTotal></LowTotal>
    <LowFree></LowFree>
    <HighTotal></HighTotal>
    <HighFree></HighFree>
    <TopUsageProcess>
      <JID></JID>
      <Name></Name>
      <Used></Used>
    </TopUsageProcess>
    <TopUsageSlub>
      <Name></Name>
      <Used></Used>
    </TopUsageSlub>
  </Memory>
</MemoryEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <MemoryEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Memory>
      <Chassis>0</Chassis>
      <Slot><0/Slot>
      <CPUID>0</CPUID>
      <CurrentState>Normal</CurrentState>
      <Total>1199160</Total>
      <Used>773500</Used>
      <Free>425660</Free>
      <FreeRatio>35</FreeRatio>
      <LowTotal>895096</LowTotal>
      <LowFree>425060</LowFree>
      <HighTotal>304064</HighTotal>
      <HighFree>600</HighFree>
      <TopUsageProcess>
        <JID>1</JID>
        <Name>scmd</Name>
```

```

        <Used>8868</Used>
    </TopUsageProcess>
    .....
    <TopUsageProcess>
        <JID>78</JID>
        <Name>fsd</Name>
        <Used>5668</Used>
    </TopUsageProcess>
    <TopUsageSlub>
        <Name>kmalloc-524280</Name>
        <Used>524280</Used>
    </TopUsageSlub>
    .....
    <TopUsageSlub>
        <Name>tcpcb</Name>
        <Used>856</Used>
    </TopUsageSlub>
</Memory>
</MemoryEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Memory event description.	Enumeration: - MEM_EARLYWARNING_THR ESHOLD - MEM_EARLYWARNING_REC OVER - MEM_MINOR_THRESHOLD - MEM_MINOR_RECOVER - MEM_SEVERE_THRESHOLD - MEM_SEVERE_RECOVER - MEM_CRITICAL_THRESHOL D - MEM_CRITICAL_RECOVER	N/A
Total	Total memory size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Used	Size of the used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
Free	Size of the free	Unsigned integer.	N/A

Column name	Column description	Data type and restrictions	Remarks
	memory space (KB)	Value range: 0 to 4294967295.	
FreeRatio	Free memory Ratio(%)	Unsigned integer. Value range: 0 to 100.	N/A
LowTotal	Total LowMem size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
LowFree	Size of the free LowMem space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
HighTotal	Total HighMem size (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
HighFree	Size of the free HighMem space (KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
TopUsageProcess	Memory Info of top usage process	Members include: - JID - Name - Used	Only report the top 10 memory usage processes.
JID	Process Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
Name	Process name	String. Length: 1 to 255 characters.	N/A
Used	Size of the process used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A
TopUsageSlub	Memory Info of top usage slub	Members include: - Name - Used	Only report the top 10 memory usage target.
Name	Target name	String. Length: 1 to 255 characters.	N/A
Used	Size of the target used memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A

CoreEvent event

This event is used to report core alarm information.

XML structure for event subscription

```

<CoreEvent>
  <Cores>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  
```

```

    <CoreID></CoreID>
  </Cores>
</CoreEvent>

```

Example:

```

<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Diagnostic</stream>
    <filter type="subtree">
      <CoreEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Cores>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <CoreID>0</CoreID>
        </Cores>
      </CoreEvent>
    </filter>
  </create-subscription>
</rpc>

```

Table description

Item	Description
Event stream name	Diagnostic
Event name	CoreEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries	Remarks
Chassis	Member ID of the member where the device entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
Slot	Slot number of the card	Unsigned integer. Value range: 0 to 65535.	No	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No	N/A
CoreID	ID of the Core.	Unsigned integer. Value range: 0 to 65535.	No	N/A

XML structure for event report

```
<CoreEvent>
  <Cores>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <CoreID></CoreID>
    <CoreUsage></CoreUsage>
    <CoreThreshold></CoreThreshold>
    <CpuLast5sUsage></CpuLast5sUsage>
    <CpuLast1mUsage></CpuLast1mUsage>
    <CpuLast5mUsage></CpuLast5mUsage>
  <Process>
    <Name></Name>
    <CPU></CPU>
    <JobID></JobID>
    <PID></PID>
    <PPID></PPID>
    <InLast5sUsage></InLast5sUsage>
    <InLast1mUsage></InLast1mUsage>
    <InLast5mUsage></InLast5mUsage>
    <State></State>
    <Memory></Memory>
  </Process>
</Cores>
</CoreEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <CoreEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Cores>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <CoreID>0</CoreID>
      <CoreUsage>6</CoreUsage>
      <CoreThreshold>5</CoreThreshold>
      <CpuLast5sUsage>3.12%</CpuLast5sUsage>
      <CpuLast1mUsage>2.56%</CpuLast1mUsage>
      <CpuLast5mUsage>5.23%</CpuLast5mUsage>
    <Process>
      <Name>diagd</Name>
      <CPU>0</CPU>
      <JobID>84</JobID>
      <PID>84</PID>
      <InLast5sUsage>10.0%</InLast5sUsage>
```

```

    <InLast1mUsage>6.0%</InLast1mUsage>
    <InLast5mUsage>5.3%</InLast5mUsage>
    <State>R</State>
    <Memory>10384</Memory>
</Process>
.....
<Process>
<Name>syslogd</Name>
    <CPU>0</CPU>
    <JobID>86</JobID>
    <PID>86</PID>
    <Name>syslogd</Name>
    <InLast5sUsage>10.0%</InLast5sUsage>
    <InLast1mUsage>6.0%</InLast1mUsage>
    <InLast5mUsage>5.3%</InLast5mUsage>
    <State>S</State>
    <Memory>12984</Memory>
</Process>
</Cores>
</CoreEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of the card	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	N/A
CoreID	ID of the Core.	Unsigned integer. Value range: 0 to 65535.	N/A
CoreUsage	Core usage (%)	Unsigned integer. Value range: 0 to 100.	In last 30 minutes the core usage
CpuLast5sUsage	The core on CPU usage (%)	Double. Value range:0 to 100. Formats: %.2f	In last 5 seconds the CPU usage.
CpuLast1mUsage	The core on CPU usage (%)	Double. Value range:0 to 100. Formats: %.2f	In last 1 minute the CPU usage.
CpuLast5mUsage	The core on CPU usage (%)	Double. Value range:0 to 100.	In last 5 minutes the CPU usage.

Column name	Column description	Data type and restrictions	Remarks
		Formats: %.2f	
CoreThreshold	Core usage threshold	Unsigned integer. Value range: 2 to 100.	N/A
Process	High-core processes usage	Members include: • Name • CPU • JobID • PID • InLast5sUsage • InLast1mUsage • InLast5mUsage • State • Memory	Only the top high-core usage processes are reported
Name	Process name	String. Length: 1 to 255 characters.	N/A
CPU	Core that held one of the top high-core usage processes when the high-core usage alarm was issued	Unsigned integer. Value range: 0 to 65535.	N/A
JobID	Job ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
PID	Process ID	Unsigned integer. Value range: 1 to 2147483647.	N/A
InLast5sUsage	Usage in the most recent 5-second interval (%)	Double. Value range: 0 to 100. Formats: %.1f	N/A
InLast1mUsage	Usage in the most recent 1-minute interval (%)	Double. Value range: 0 to 100. Formats: %.1f	N/A
InLast5mUsage	Usage in the most recent 5-minute interval (%)	Double. Value range: 0 to 100. Formats: %.1f	N/A
State	Running state of process	Enumeration: • R—Running. • S—Sleeping. • T—Traced or stopped. • D—Uninterruptible sleep. • Z—Zombie.	N/A
Memory	Size of the process memory space(KB)	Unsigned integer. Value range: 0 to 4294967295.	N/A

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DIM

DIM/CompileInspectEngine

This table triggers the inspect engine to activate all DPI settings.

XML structure

```
<DIM>
  <CompileInspectEngine>
    <Compile></Compile>
  </CompileInspectEngine>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CompileInspectEngine
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Compile	Activate all DPI settings	N/A	Boolean: - true - false	N/A

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DIM

DIM/BlockParameters

This table contains block parameters.

XML structure

```
<DIM>
  <BlockParameters>
    <BlockParameter>
      <ParameterName></ParameterName>
      <Denyperiod></Denyperiod>
    </BlockParameter>
  </BlockParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Denyperiod	Deny period	N/A	Unsigned integer. Value range: 1 to 86400s	Default is 1800s

DIM/CaptureParameters

This table contains capture parameters.

XML structure

```
<DIM>
  <CaptureParameters>
    <CaptureParameter>
      <ParameterName></ParameterName>
      <CaptureMax></CaptureMax>
      <CaptureExceedURL></CaptureExceedURL>
      <StartTime></StartTime>
    </CaptureParameter>
  </CaptureParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CaptureParameters
Table type	Multi-instance table
Row name	CaptureParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CaptureMax	Max space for captured packets	N/A	Unsigned integer. Value range: 0 to 1024	Default is 512 Kbytes
CaptureExceedURL	The URL while the packets size exceeds the max space, they will be sent to	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
StartTime	Time when the system sends the packets	N/A	Time. Format: HH:MM:SS	Default is 01:00:00

DIM/LoggingParameters

This table contains logging parameters.

XML structure

```
<DIM>
  <LoggingParameters>
    <LoggingParameter>
      <ParameterName></ParameterName>
      <IsLogToHost></IsLogToHost>
      <IsLogMail></IsLogMail>
    </LoggingParameter>
  </LoggingParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: - true - false	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: - true - false	N/A

DIM/RedirectParameters

This table contains redirect parameters.

XML structure

```
<DIM>
  <RedirectParameters>
```

```

    <RedirectParameter>
      <ParameterName></ParameterName>
      <url></url>
    </RedirectParameter>
  </RedirectParameters>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	RedirectParameters
Table type	Multi-instance table
Row name	RedirectParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
url	Target URL for redirect	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

DIM/MailParameters

This table contains mail parameters.

XML structure

```

<DIM>
  <MailParameters>
    <MailParameter>
      <ParameterName></ParameterName>
      <ServerAddr></ServerAddr>
      <SrcMailAddr></SrcMailAddr>
      <DstMailAddr></DstMailAddr>
      <LocalDomain></LocalDomain>
      <UserName></UserName>
      <Password></Password>
      <IsNeedAuthentication></IsNeedAuthentication>
    </MailParameter>
  </MailParameters>
</DIM>

```

```

        <IsNeedSPA></IsNeedSPA>
    </MailParameter>
</MailParameters>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	MailParameters
Table type	Multi-instance table
Row name	MailParameter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServerAddr	Mail server's address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMailAddr	Source mail address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMailAddr	Destination mail address	N/A	String, case-insensitive. Length: 1 to 511 characters.	N/A
LocalDomain	Local domain name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserName	Mail user name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Password	Password	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsNeedAuthentication	Requires authentication by the mail server or not	N/A	Boolean: - true - false	N/A
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: - true - false	N/A

DIM/InspectBypass

This table contains bypass parameters.

XML structure

```
<DIM>
  <InspectBypass>
    <BypassByConfig></BypassByConfig>
  </InspectBypass>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	InspectBypass
Table Type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BypassByConfig	Value of bypass.	N/A	Boolean: - true - false	N/A

DIM/ProxyServerParameters

This table contains information about DIM proxy server parameters.

XML structure

```
<DIM>
  <ProxyServerParameters>
    <ProxyServerParameter>
      <ProxyAddress></ProxyAddress>
      <ProxyPort></ProxyPort>
      <UserName></UserName>
      <PassWord></PassWord>
    </ProxyServerParameter>
  </ProxyServerParameters>
</DIM>
```

</DIM>

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerParameters
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/DimFileUncompress

This table contains the maximum length of file uncompressing.

XML structure

```
<DIM>
  <DimFileUncompress>
    <Size></Size>
  </DimFileUncompress>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DimFileUncompress

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Size	Maximum size that can be uncompressed	N/A	Unsigned integer. Value range: 1 to 200MB.	N/A

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DIM

DIM/BlockParameters

This table contains block parameters.

XML structure

```
<DIM>
  <BlockParameters>
    <BlockParameter>
      <ParameterName></ParameterName>
      <Denyperiod></Denyperiod>
    </BlockParameter>
  </BlockParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Denyperiod	Deny period	N/A	Unsigned integer. Value range: 1 to 86400s.	Default is 1800s

DIM/CaptureParameters

This table contains capture parameters.

XML structure

```
<DIM>
  <CaptureParameters>
    <CaptureParameter>
      <ParameterName></ParameterName>
      <CaptureMax></CaptureMax>
      <CaptureExceedURL></CaptureExceedURL>
      <UploadTime></UploadTime>
    </CaptureParameter>
  </CaptureParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	CaptureParameters
Table type	Multi-instance table
Row name	CaptureParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CaptureMax	Max space for captured packets	N/A	Unsigned integer. Value range: 0 to 1024	Default is 512 Kbytes
CaptureExceedURL	The URL while the packets size exceeds the max space, they will be sent to	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UploadTime	Time when the system sends the packets	N/A	Time. Format: HH:MM:SS	Default is 01:00:00

DIM/LoggingParameters

This table contains logging parameters.

XML structure

```
<DIM>
  <LoggingParameters>
    <LoggingParameter>
      <ParameterName></ParameterName>
      <IsLogToHost></IsLogToHost>
      <IsLogMail ></IsLogMail>
    </LoggingParameter>
  </LoggingParameters>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	BlockParameters
Table type	Multi-instance table
Row name	BlockParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: - true - false	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: - true - false	N/A

DIM/RedirectParameters

This table contains redirect parameters.

XML structure

```
<DIM>
  <RedirectParameters>
    <RedirectParameter>
```

```

        <ParameterName></ParameterName>
        <url></url>
    </RedirectParameter>
</RedirectParameters>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	RedirectParameters
Table type	Multi-instance table
Row name	RedirectParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
url	Target URL for redirect	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

DIM/MailParameters

This table contains mail parameters.

XML structure

```

<DIM>
  <MailParameters>
    <MailParameter>
      <ParameterName></ParameterName>
      <ServerAddr></ServerAddr>
      <SrcMailAddr></SrcMailAddr>
      <DstMailAddr></DstMailAddr>
      <LocalDomain></LocalDomain>
      <UserName></UserName>
      <Password></Password>
      <IsNeedAuthentication></IsNeedAuthentication>
      <IsNeedSPA></IsNeedSPA>
    </MailParameter>
  </MailParameters>
</DIM>

```



```

    </MailParameters>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	MailParameters
Table type	Multi-instance table
Row name	MailParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServerAddr	Mail server's address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMailAddr	Source mail address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMailAddr	Destination mail address	N/A	String, case-insensitive. Length: 1 to 511 characters.	N/A
LocalDomain	Local domain name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserName	Mail user name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Password	Password	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsNeedAuthentication	Requires authentication by the mail server or not	N/A	Boolean: - true - false	N/A
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: - true - false	N/A

DIM/ActivePercentage

This table contains active percentage.

XML structure

```
<DIM>
  <ActivePercentage>
    <Percentage></Percentage>
  </ActivePercentage>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	ActivePercentage
Table Type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Percentage of active.	N/A	Unsigned integer: Value range: 0 to 100.	When the value range is 0 to 100, it means in active, Otherwise, means error

DIM/InspectBypass

This table contains bypass information.

XML structure

```
<DIM>
  <InspectBypass>
    <BypassByConfig></BypassByConfig>
  </InspectBypass>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	InspectBypass
Table Type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BypassByConfig	Value of bypass.	N/A	Boolean: - true - false	N/A

DIM/ProxyServerParameters

This table contains information about DIM proxy server parameters.

XML structure

```

<DIM>
  <ProxyServerParameters>
    <ProxyServerParameter>
      <ProxyAddress></ProxyAddress>
      <ProxyPort></ProxyPort>
      <UserName></UserName>
      <PassWord></PassWord>
    </ProxyServerParameter>
  </ProxyServerParameters>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	ProxyServerParameters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server	N/A	String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		Length: 3 to 63 characters.	
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

DIM/DimFileUncompress

This table contains the maximum length of file uncompressing.

XML structure

```

<DIM>
  <DimFileUncompress>
    <Size></Size>
  </DimFileUncompress>
</DIM>

```

Table description

Item	Description
Feature name	DIM
Table name	DimFileUncompress
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Size	Maximum size that can be uncompressed	N/A	Unsigned integer. Value range: 1 to 200MB.	N/A

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Resource Summary for DIM

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
BlockParameters	/api/v1/DIM/BlockParameters	Y	Y	Y	Y
CaptureParameters	/api/v1/DIM/CaptureParameters	Y	Y	Y	Y
LoggingParameters	/api/v1/DIM/LoggingParameters	Y	Y	Y	Y
RedirectParameters	/api/v1/DIM/RedirectParameters	Y	Y	Y	Y
MailParameters	/api/v1/DIM/MailParameters	Y	Y	Y	Y
ActivePercentage	/api/v1/DIM/ActivePercentage	Y	N	N	N
InspectBypass	/api/v1/DIM/InspectBypass	Y	N	Y	Y
ProxyServerParameters	/api/v1/DIM/ProxyServerParameters	Y	Y	Y	Y
DimFileUncompress	/api/v1/DIM/DimFileUncompress	Y	N	Y	Y

DIM

BlockParameters

This table contains block parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Denyperiod	Deny period	N/A	Unsigned integer. Value range: 1 to 86400s.	Default is 1800s

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/BlockParameters?index=ParameterName%3D1

Json Response

200 OK

{

```

    "BlockParameters":
    [
      {
        "ParameterName": "1",
        "Denyperiod ": 1000
      }
    ]
  }

```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/DIM/BlockParameters

```

{
  "BlockParameters":
  [
    {
      "ParameterName": "2",
      "Denyperiod": 1000
    }
  ]
}

```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/BlockParameters?index=ParameterName%3D3

```

{
  "BlockParameters":
  [
    {
      "ParameterName": "3",
      "Denyperiod": 1000
    }
  ]
}

```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/BlockParameters?index= ParameterName%3D4

Json Response

CaptureParameters

This table contains capture parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CaptureMax	Max space for captured packets	N/A	Unsigned integer. Value range: 0 to 1024	Default is 512 Kbytes
CaptureExceedURL	The URL while the packets size exceeds the max space, they will be sent to	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
StartTime	Time when the system sends the packets	N/A	Time. Format: HH:MM:SS	Default is 01:00:00

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/CaptureParameters?index=ParameterName%3D1

Json Response

200 OK

```
{
  "CaptureParameters":
  [{
    "ParameterName": "1",
    "CaptureMax": 1000,
    "CaptureExceedURL": "tftp://192.168.100.100/upload",
    "StartTime": "02:20:20"
  }]
}
```

Example 2: Add a new instance for the resource table.

Json Request

POST /api/v1/DIM/ CaptureParameters

```
{
  "CaptureParameters":
  [{
    "ParameterName": "2",
    "CaptureMax": 2000,
    "CaptureExceedURL": "tftp://192.168.100.100/upload",
    "StartTime": "01:20:20"
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/CaptureParameters?index=ParameterName%3D3

```
{
  "CaptureParameters":
  [{
    "ParameterName": "3",
    "CaptureMax": 3000,
    "CaptureExceedURL": "tftp://192.168.200.200/upload",
    "StartTime": "03:20:20"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/CaptureParameters?index=ParameterName%3D4

Json Response

204 No Content

LoggingParameters

This table contains logging parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsLogToHost	Sending log to host or not	N/A	Boolean: - true - false	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: - true - false	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/LoggingParameters?index= ParameterName%3D1

Json Response

200 OK

```
{
  "LoggingParameters":
  [{
    "ParameterName": "1",
    "IsLogToHost": false,
    "IsLogMail": false
  }]
}
```

Example 2: Add a new instance for the resource table.

Json Request

POST /api/v1/DIM/ LoggingParameters

```
{
  "LoggingParameters":
  [{
    "ParameterName": "2",
```

```

        "IsLogToHost":true,
        "IsLogMail":true
    }}
}

```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/LoggingParameters?index=ParameterName%3D3

```

{
  "LoggingParameters":
  [{
    "ParameterName":"3",
    "IsLogToHost":true,
    "IsLogMail":false
  }]
}

```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/LoggingParameters?index=ParameterName%3D4

Json Response

204 No Content

RedirectParameters

This table contains redirect parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
url	Target URL for redirect	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/RedircetParameters?index=ParameterName%3D1

Json Response

200 OK

```
{
  "RedircetParameters":
  [{
    "ParameterName": "1",
    "url": "http://www.abc.com/upload"
  }]
}
```

Example 2: Add a new instance for the resource table.

Json Request

POST /api/v1/DIM/RedircetParameters

```
{
  "RedircetParameters":
  [{
    "ParameterName": "2",
    "url": "http://www.abc.com/upload"
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/RedircetParameters?index=ParameterName%3D3

```
{
```

```

"RedircetParameters":
[
  {
    "ParameterName": "3",
    "url": "http://www.abcdef.com/upload"
  }
]

```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/RedircetParameters?index=ParameterName%3D4

Json Response

204 No Content

MailParameters

This table contains mail parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ParameterName	Parameter name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServerAddr	Mail server's address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SrcMailAddr	Source mail address	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
DstMailAddr	Destination mail address	N/A	String, case-insensitive. Length: 1 to 511 characters.	N/A
LocalDomain	Local domain name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserName	Mail user name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Password	Password	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsNeedAuthentication	Requires authentication by the mail server or not	N/A	Boolean: - true - false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: - true - false	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/ MailParameters?index=ParameterName%3D1

Json Response

200 OK

```
{
  "MailParameters":
  [{
    "ParameterName": "1",
    "ServerAddr": "rndcas.123.com",
    "SrcMailAddr": "abc@1234.com",
    "DstMailAddr": "1234@abc.com",
    "LocalDomain": "192.168.0.2",
    "UserName": "hanhan",
    "Password": "abc1234",
    "IsNeedAuthentication": true,
    "IsNeedSPA": true
  }]
}
```

Example 2: Add a new instance for the resource table.

Json Request

POST /api/v1/DIM/ MailParameters

```
{
  "MailParameters":
  [{
    "ParameterName": "2",
    "ServerAddr": "rndcas.123.com",
    "SrcMailAddr": "abc@1234.com",
    "DstMailAddr": "1234@abc.com",
```

```

        "LocalDomain": "192.168.0.2",
        "UserName": "hanhan",
        "Password": "abc1234",
        "IsNeedAuthentication": true,
        "IsNeedSPA": true
    }
}

```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/MailParameters?index=ParameterName%3D3

```

{
  "MailParameters":
  [{
    "ParameterName": "3",
    "ServerAddr": "rndcas.123.com",
    "SrcMailAddr": "abc@1234.com",
    "DstMailAddr": "1234@abc.com",
    "LocalDomain": "192.168.0.2",
    "UserName": "hanhan",
    "Password": "abc1234",
    "IsNeedAuthentication": true,
    "IsNeedSPA": true
  }]
}

```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/MailParameters?index=ParameterName%3D4

Json Response

204 No Content

ActivePercentage

This table contains active percentage.

Properties

Column name	Column description	Column Type	Data Type and restrictions	Remarks
Percentage	Percentage of active.	N/A	Unsigned integer: Value range: 0 to 100.	When the value range is 0 to 100,it means in active, Otherwise, means error

Example

Json Request

GET /api/v1/DIM/ActivePercentage

Json Response

200 OK

```
{
  "ActivePercentage":
  [{
    "Percentage ":100
  }]
}
```

InspectBypass

This table contains bypass information.

Properties

Column name	Column description	Column Type	Data Type and restrictions	Remarks
BypassByConfig	Value of bypass.	N/A	Boolean: - true - false	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/InspectBypass

200 OK

```
{
  "InspectBypass":
    [{
      "BypassByConfig":true
    }]
}
```

Example 2: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/InspectBypass

```
{
  "InspectBypass":
    [{
      "BypassByConfig":false
    }]
}
```

Json Response

204 No Content

Example 3: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/InspectBypass

Json Response

204 No Content

ProxyServerParameters

This table contains information about DIM proxy server parameters.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyAddress	Proxy server address	N/A	String, case-insensitive Length: 3 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProxyPort	Proxy server port	N/A	Unsigned integer: Value range: 1 to 65535.	N/A
UserName	Proxy username	N/A	String, case-insensitive Length: 1 to 31 characters.	N/A
PassWord	Proxy password	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/ProxyServerParameters

200 OK

```
{
  "ProxyServerParameters":
  [{
    "BypassByConfig":"1.1.1.1",
    "ProxyPort":3000,
    "UserName":"abc",
    "PassWord":"123456"
  }]
}
```

Example 2: Add a new instance for the resource table.

Json Request

POST /api/v1/DIM/ProxyServerParameters

```
{
  "ProxyServerParameters":
  [{
    "BypassByConfig":"1.1.1.1",
    "ProxyPort":3000,
    "UserName":"abc",
    "PassWord":"123456"
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/ProxyServerParameters

```
{
  "ProxyServerParameters":
  [{
    "BypassByConfig":"1.1.1.1",
    "ProxyPort":3000,
    "UserName":"abc",
    "PassWord":"123456"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/ProxyServerParameters

Json Response

204 No Content

DimFileUncompress

This table contains the maximum length of file uncompressing.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Size	Maximum size that can be uncompressed	N/A	Unsigned integer. Value range: 1 to 200MB.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/DIM/DimFileUncompress

Json Response

200 OK

```
{
  "DimFileUnCompress":
  [{
    "Size":50
  }]
}
```

Example 2: Change the data for the assigned instance.

Json Request

PUT /api/v1/DIM/DimFileUncompress

```
{
  "DimFileUnCompress":
  [{
    "Size":50
  }]
}
```

Json Response

204 No Content

Example 3: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/DIM/DimFileUncompress

Json Response

204 No Content

Contents

DNS	1
DNS/DNSClearHost	1
XML structure	1
Table description	1
Columns	1

DNS

DNS/DNSClearHost

This table is used to clear DNS host entries.

XML structure

```
<DNS>
  <DNSClearHost>
    <ClearHost>
      <VRF></VRF>
      <Type></Type>
      <QueryType></QueryType>
    </ClearHost>
  </DNSClearHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSClearHost
Table type	Multi-instance table
Row name	ClearHost
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the length of characters is 0.
Type	Domain name-to-IP address mapping type	Index	Enumeration: 1—Static. 2—Dynamic.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueryType	Query type	Index	Enumeration: • 1—A. • 2—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address. If all the query type is set, the length of the column is 0.

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Columns	6

DNS

DNS/DNSHost

This table contains DNS host configuration information.

XML structure

```
<DNS>
  <DNSHost>
    <Host>
      <VRF></VRF>
      <HostName></HostName>
      <Type></Type>
      <QueryType></QueryType>
      <Result></Result>
    </Host>
  </DNSHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHost
Table type	Multi-instance table
Row name	Host
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the length of characters is 0.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Domain name-to-IP address mapping type	Index	Enumeration: • 1—Static.	N/A
QueryType	Query type	Index	Enumeration: • 1—A. • 2—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address.
Result	Replied result	N/A	String, case insensitive. Length: 1 to 45 characters.	Required. An IPv4 address as QueryType is A, an IPv6 address as QueryType is AAAA.

DNS/DNSServer

This table contains DNS server configuration information.

XML structure

```

<DNS>
  <DNSServer>
    <Server>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
    </Server>
  </DNSServer>
</DNS>

```

Table description

Item	Description
Feature name	DNS
Table name	DNSServer
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the length of characters is 0.
Type	DNS server type	Index	Enumeration: • 1—Static.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

DNS/DNSDomain

This table contains domain name suffix configuration information.

XML structure

```

<DNS>
  <DNSDomain>
    <Domain>
      <VRF></VRF>
      <Type></Type>
      <DomainName></DomainName>
    </Domain>
  </DNSDomain>
</DNS>

```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the domain name suffix is on the public network, the length of characters is 0.
Type	Domain name suffix type	Index	Enumeration: 1—Static.	N/A
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.

DNS/DNSConfig

This table contains DNS configuration information.

XML structure

```
<DNS>
  <DNSConfig>
    <DNSProxyEnable></DNSProxyEnable>
    <DNSDSCP></DNSDSCP>
    <DNSDSCP6></DNSDSCP6>
  </DNSConfig>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSProxyEnable	Whether the function of DNS proxy is enabled	N/A	Boolean: true false(default)	Support for this function depends on the device model.
DNSDSCP	DSCP value for DNS packets sent by a DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A
DNSDSCP6	DSCP value for IPv6 DNS packets sent by an IPv6 DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63. Default: 0.	N/A

DNS/DNSServer

This table contains DNS server of interface information.

XML structure

```
<DNS>
  <DNSIfServer>
    <Server>
      <IfIndex></IfIndex>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndexOut></IfIndexOut>
      <Priority></Priority>
    </Server>
  </DNSIfServer>
```

</DNS>

Table description

Item	Description
Feature name	DNS
Table name	DNSIfServer
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the length of characters is 0.
Type	DNS server type	Index	Enumeration: 1—Static.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndexOut	Output interface Index	Index	Unsigned integer.	Must and can only be specified when the IPv6 address of the DNS server is a link-local address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

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XML structure	6
Table description	6
Columns	6
DNS/DNSIfServer	6
XML structure	6
Table description	7
Columns	7

DNS

DNS/DNSHost

This table contains DNS host information.

XML structure

```
<DNS>
  <DNSHost>
    <Host>
      <VRF></VRF>
      <HostName></HostName>
      <Type></Type>
      <QueryType></QueryType>
      <AgeTime></AgeTime>
      <Result></Result>
    </Host>
  </DNSHost>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSHost
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS host is on the public network, the length of characters is 0.
HostName	Host name	Index	String, case insensitive. Length: 1 to 253 characters.	It can include letters, digits, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Domain name-to-IP address mapping type	Index	Enumeration: 1—Static. 2—Dynamic.	N/A
QueryType	Query type	Index	Enumeration: 1—A. 2—AAAA.	A type A query resolves a domain name to the mapped IPv4 address. A type AAAA query resolves a domain name to the mapped IPv6 address.
AgeTime	Time in seconds that a mapping can be stored in the cache.	N/A	Unsigned integer. Value range: 1 to 65535 seconds.	No aging time for a static mapping.
Result	Replied result	N/A	String, case insensitive.	IPv4 address string as QueryType is A, IPv6 address string as QueryType is AAAA. Separated by space if there are multiple addresses. Example: 1.1.1.1 2.2.2.2 3.3.3.3. 1::1 2::2 3::3.

DNS/DNSServer

This table contains DNS server information.

XML structure

```

<DNS>
  <DNSServer>
    <Server>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndex></IfIndex>
      <Priority></Priority>
    </Server>
  </DNSServer>
</DNS>

```

Table description

Item	Description
Feature name	DNS
Table name	DNSServer
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the length of characters is 0.
Type	DNS server type	Index	Enumeration: 1—Static. 2—Dynamic.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndex	Output interface Index	Index	Unsigned integer.	Equal 0 if AddressType is 1 or the IpAddress is not a link-local address.
Priority	Priority of DNS server	N/A	Unsigned integer. Value range: 0 to 5.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

DNS/DNSDomain

This table contains domain name suffix information.

XML structure

```
<DNS>
  <DNSDomain>
    <Domain>
      <VRF></VRF>
```

```

    <Type></Type>
    <DomainName></DomainName>
    <Priority></Priority>
  </Domain>
</DNSDomain>
</DNS>

```

Table description

Item	Description
Feature name	DNS
Table name	DNSDomain
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the domain name suffix is on the public network, the length of characters is 0.
Type	Domain name suffix type	Index	Enumeration: 1—Static. 2—Dynamic.	N/A
DomainName	Domain name suffix	Index	String, case insensitive. Length: 1 to 253 characters.	It is a dot-separated, case-insensitive string that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can include at most 253 characters, and each separated string includes no more than 63 characters.
Priority	Priority of domain name suffix	N/A	Unsigned integer. Value range: 0 to 15.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

DNS/DNSConfig

This table contains DNS configuration information.

XML structure

```
<DNS>
  <DNSConfig>
    <DNSProxyEnable></DNSProxyEnable>
    <DNSDSCP></DNSDSCP>
    <DNSDSCP6></DNSDSCP6>
  </DNSConfig>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSProxyEnable	Whether the function of DNS proxy is enabled	N/A	Boolean: true False	Support for this function depends on the device model.
DNSDSCP	DSCP value for DNS packets sent by a DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DNSDSCP6	DSCP value for IPv6 DNS packets sent by an IPv6 DNS client or DNS proxy	N/A	Unsigned integer. Value range: 0 to 63.	N/A

DNS/DNSSpecification

This table contains DNS specification information.

XML structure

```
<DNS>
  <DNSSpecification>
    <SupportDNSProxy></SupportDNSProxy>
  </DNSSpecification>
</DNS>
```

Table description

Item	Description
Feature name	DNS
Table name	DNSSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDNS Proxy	Whether the function of DNS proxy is supported.	N/A	Boolean: true false	N/A

DNS/DNSIfServer

This table contains DNS server of interface information.

XML structure

```
<DNS>
  <DNSIfServer>
    <Server>
      <IfIndex></IfIndex>
      <VRF></VRF>
      <Type></Type>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <IfIndexOut></IfIndexOut>
      <Priority></Priority>
    </Server>
  </DNSIfServer>
</DNS>
```

</DNS>

Table description

Item	Description
Feature name	DNS
Table name	DNSIfServer
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VRF	VRF instance name	Index	String, case sensitive. Length: 1 to 31 characters.	If the DNS server is on the public network, the length of characters is 0.
Type	DNS server type	Index	Enumeration: 1—Static. 2—Dynamic.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: 1—IPv4. 2—IPv6.	N/A
IpAddress	IP address of the DNS server	Index	String, case insensitive. Length: 1 to 45 characters.	IPv4 address string as AddressType is IPv4, IPv6 address string as AddressType is IPv6.
IfIndexOut	Output interface Index	Index	Unsigned integer.	Equal 0 if AddressType is 1 or the IpAddress is not a link-local address.
Priority	Priority of DNS server	N/A	Unsigned integer. Value range: 0 to 5.	The lower the value, the greater the priority. The priority indicates query sequence when resolving a domain name.

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Columns	1

Domain

Domain/Domains

Domain status table.

XML structure

```
<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <State></State>
    </Domain>
  </Domains>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.
State	Status of the domain.	N/A	Enumeration: • 0—Block. • 1—Active.

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XML structure	3
Table description	4
Columns	4
Domain/Schemes	6
XML structure	6
Table description	6
Columns	7
Domain/BroadcastSchemes	9
XML structure	9
Table description	10
Columns	10

Domain

Domain/GlobalConfig

Global domain configuration information table.

XML structure

```
<Domain>
  <GlobalConfig>
    <DefaultDomain></DefaultDomain>
    <IfUnknownDomain></IfUnknownDomain>
  </GlobalConfig>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	A maximum of 16 domains can be created.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultDomain	Default domain.	N/A	String, case-insensitive. Length: 1 to 255 characters.	By default, the default domain is the predefined domain named system.
IfUnknownDomain	ISP domain that accommodates users assigned to nonexistent domains.	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ / : * ? " < > @	N/A

Domain/SessionLimit

The maximum number of concurrent users that can log on to the device through the specified method.

XML structure

```
<Domain>
  <SessionLimit>
    <Ftp></Ftp>
    <Telnet></Telnet>
    <Http></Http>
    <Ssh></Ssh>
    <Https></Https>
  </SessionLimit>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	SessionLimit
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ftp	Maximum number of concurrent FTP users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.
Telnet	Maximum number of concurrent Telnet users.	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.
Http	Maximum number of concurrent HTTP users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ssh	Maximum number of concurrent SSH users.	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.
Https	Maximum number of concurrent HTTPS users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32.

Domain/Domains

Basic domain information table.

XML structure

```

<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <SessTimeIncldeIdle></SessTimeIncldeIdle>
      <AcctStartFailAction></AcctStartFailAction>
      <ServiceType></ServiceType>
      <AuthorAttrs>
        <IdleTime></IdleTime>
        <IdleFlow></IdleFlow>
        <ProfileName></ProfileName>
        <IpPoolName></IpPoolName>
        <Ipv6PoolName></Ipv6PoolName>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
        <PrimDnsIpaddr></PrimDnsIpaddr>
        <PrimDnsIpv6addr></PrimDnsIpv6addr>
        <SecDnsIpaddr></SecDnsIpaddr>
        <SecDnsIpv6addr></SecDnsIpv6addr>
        <PortalUrl></PortalUrl>
        <VRF></VRF>
        <IgmpMaxAccessNum></IgmpMaxAccessNum>
        <MldMaxAccessNum></MldMaxAccessNum>
        <SessTimeOut></SessTimeOut>

      </AuthorAttrs>
    </Domain>
  </Domains>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	A maximum of 16 domains can be created. The domain named system is predefined and can't be deleted.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name can't contain the following characters: \ / : * ? " < > @	A predefined domain named system exists.
SessTimeIncl deldle	Whether to include the idle cut period or user online detection period in the user online duration to be sent to the server.	N/A	Boolean: true—The idle cut period or user online detection period is included in the user online duration to be sent to the server. false—The idle cut period or user online detection period is excluded from the user online duration to be sent to the server.	Default: false. Only portal users support the user online detection period.
AcctStartFail Action	Access control for users that encounter accounting-start failures.	N/A	Enumeration: 0—Allow the users to stay online. 1—Log off the users.	Default: 0.
ServiceType	Service type of the domain.	N/A	Enumeration: 0—High-Speed Internet (HSI) service. 1—Set Top Box (STB) service. 2—Voice over IP (VoIP) service.	Default: 0.
AuthorAttrs	Authorization attributes.	Data structure	Members include: IdleTime. IdleFlow. ProfileName. IpPoolName. Ipv6PoolName.	N/A

			• Ipv6Address. • Ipv6PrefixLength. • PrimDnsIpaddr. • PrimDnsIpv6addr. • SecDnsIpaddr. • SecDnsIpv6addr. • PortalUrl. • VRF. • IgmpMaxAccessNum. • MldMaxAccessNum. • SessTimeOut.	
IdleTime	Idle timeout period.	N/A	Unsigned integer. Value range: 1 to 600, in minutes.	N/A
IdleFlow	The minimum traffic that must be generated in the idle timeout period.	N/A	Unsigned integer. Value range: 1 to 10240000, in bytes.	Default: 10240 bytes.
ProfileName	User profile name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid characters include letters, digits, and underscores (_). The name must start with a letter and must be unique.
IpPoolName	IPv4 address pool name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Ipv6PoolName	IPv6 address pool name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address for specifying the prefix.	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
PrimDnsIpaddr	IPv4 address of the primary DNS server.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 10.1.1.1.
PrimDnsIpv6addr	IPv6 address of the primary DNS server.	N/A	IPv6: Hexadecimal string.	IPv6 example: 2001:12::22:33.
SecDnsIpaddr	IPv4 address of the secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 10.1.1.1.
SecDnsIpv6addr	IPv6 address of the secondary DNS server.	N/A	IPv6: Hexadecimal string.	IPv6 example: 2001:12::22:33.
PortalUrl	Portal redirect URL.	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

IgmpMaxAccessNum	The maximum number of IGMP groups that an IPv4 user can join concurrently.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
MldMaxAccessNum	The maximum number of MLD groups that an IPv6 user can join concurrently.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
SessTimeOut	Session timeout timer.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Users are logged off when the session timeout timer expires for the users.

Domain/Schemes

Domain scheme table.

XML structure

```

<Domain>
  <Schemes>
    <Scheme>
      <DomainName></DomainName>
      <AaaType></AaaType>
      <AccessType></AccessType>
      <SchemeList></SchemeList>
      <SchemeNameList></SchemeNameList>
    </Scheme>
  </Schemes>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
AaaType	AAA type.	Index	Enumeration: • 0—Authentication. • 4—Authorization. • 5—Accounting.	There are some restrictions among the column AccessType, the column AaaType, and the column SchemeList. Those restrictions will be described in the Restrictions section below the table.
AccessType	Access type.	Index	Enumeration: • 0—Login. • 1—Super. • 2—Command. • 3—LAN access. • 4—PPP. • 5—Default. • 6—Portal. • 7—IKE. • 8—IPoE. • 9—SSL VPN. • 10—ADVPN.	
SchemeList	AAA method types.	N/A	String. Length: 1 to 9 characters, using the format of 1-2-4. The hyphen (-) is used to separate the digits that represent different AAA methods, including: • 1—HWTACACS. • 2—RADIUS. • 3—LDAP. • 4—Local. • 5—None. The string 1-2-4 indicates that HWTACACS is specified as the primary authentication, authorization, or accounting method. If the HWTACACS method fails, the RADIUS method applies. If the RADIUS method fails, the local method applies.	
SchemeNameList	Scheme name list.	N/A	String, case-insensitive. Length: 0 to 68 characters, may contain 0 to 2 scheme names. Every scheme name contains two parts: Scheme name length and scheme name string. The scheme name is in the	If this column is not available, no schemes are specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			format of xxmm.....mm. - The xx argument represents the scheme name length. Use two digits to set the scheme name length. - The mm.....mm argument represents the scheme name string. The string is 1 to 32 characters. For example: - The string 08abcdefgh represents a scheme whose name is abcdefgh and whose name length is 8 characters. - The string 10testtestte04test represents two schemes. One scheme is named as testtestte and the name length is 10 characters. The other scheme is named as test and the name length is 4 characters.	

Restrictions:

- The letter Y indicates that a specific access type supports a specific method for authentication, authorization, or accounting.
- You can specify one primary method and multiple backup methods for authentication, authorization, or accounting. An AAA method with a lower level can be the backup of another method that has a higher level. The following list arranges the methods from high level to low level:
 - RADIUS, TACACS, and LDAP.
 - Local.
 - None.

Among the highest-level methods, the RADIUS method and TACACS method can be the backup of each other.

- In FIPS mode, all access types can't use the none method for authentication, authorization, or accounting.

AAA method (level)		RADIUS (3)	TACACS (3)	LDAP (3)	Local (2)	None (1)
Access type +AAA type						
Default	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Login	Authentication	Y	Y	Y	Y	Y

	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Super	Authentication	Y	Y			
Command	Authorization		Y		Y	Y
	Accounting		Y			
LAN access (MAC authentication or 802.1X)	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
PPP	Authentication	Y	Y		Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Portal	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
IKE	Authentication	Y			Y	Y
IPoE	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
SSL VPN	Authentication	Y		Y	Y	Y
	Authorization	Y		Y	Y	Y
	Accounting	Y			Y	Y
ADVPN	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y

Domain/BroadcastSchemes

RADIUS broadcast scheme table for a domain.

XML structure

```

<Domain>
  <BroadcastSchemes>
    <BroadcastScheme>
      <DomainName></DomainName>
      <AccessType></AccessType>
      <SchemeName></SchemeName>
    </BroadcastScheme>
  </BroadcastSchemes>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	BroadcastSchemes
Table type	Multi-instance table
Row name	BroadcastScheme
Restrictions	Configure this table only for domains that have been configured RADIUS accounting.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The name can't contain the following characters: \ / : * ? " < > @	N/A
AccessType	Access type.	Index	Enumeration: • 3—LAN access. • 4—PPP. • 6—Portal. • 8—IPoE.	At present, only one RADIUS broadcast scheme is supported for a domain.
SchemeName	RADIUS scheme name.	Index	String. Length: 1 to 32 characters.	

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Domain

Domain/GlobalConfig

Global domain configuration information table.

XML structure

```
<Domain>
  <GlobalConfig>
    <DefaultDomain></DefaultDomain>
    <IfUnknownDomain></IfUnknownDomain>
  </GlobalConfig>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	A maximum of 16 domains can be created.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultDomain	Default domain.	N/A	String, case-insensitive. Length: 1 to 255 characters.	By default, the default domain is the predefined domain named system.
IfUnknownDomain	ISP domain that accommodates users assigned to nonexistent domains.	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ / : * ? " < > @	N/A

Domain/SessionLimit

The maximum number of concurrent users that can log on to the device through the specific method.

XML structure

```
<Domain>
  <SessionLimit>
    <Ftp></Ftp>
    <Telnet></Telnet>
    <Http></Http>
    <Ssh></Ssh>
    <Https></Https>
  </SessionLimit>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	SessionLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ftp	Maximum number of concurrent FTP users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.
Telnet	Maximum number of concurrent Telnet users.	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.
Http	Maximum number of concurrent HTTP users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32. - In non-FIPS mode, the value for this column can take effect. - In FIPS mode, this column is ignored.
Ssh	Maximum number of concurrent SSH	N/A	Unsigned integer. Value range: 1 to 32.	Default: 32.

Column name	Column description	Column type	Data type and restrictions	Remarks
	users.			
Https	Maximum number of concurrent HTTPS users.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 32.

Domain/Domains

Basic domain information table.

XML structure

```

<Domain>
  <Domains>
    <Domain>
      <DomainName></DomainName>
      <SessTimeIncldeIdle></SessTimeIncldeIdle>
      <State></State>
      <AcctStartFailAction></AcctStartFailAction>
      <ServiceType></ServiceType>
      <AuthorAttrs>
        <IdleTime></IdleTime>
        <IdleFlow></IdleFlow>
        <ProfileName></ProfileName>
        <IpPoolName></IpPoolName>
        <Ipv6PoolName></Ipv6PoolName>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
        <PrimDnsIpaddr></PrimDnsIpaddr>
        <PrimDnsIpv6addr></PrimDnsIpv6addr>
        <SecDnsIpaddr></SecDnsIpaddr>
        <SecDnsIpv6addr></SecDnsIpv6addr>
        <PortalUrl></PortalUrl>
        <VRF></VRF>
        <IgmpMaxAccessNum></IgmpMaxAccessNum>
        <MldMaxAccessNum></MldMaxAccessNum>
        <SessTimeOut></SessTimeOut>
      </AuthorAttrs>
    </Domain>
  </Domains>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	A maximum of 16 domains can be created. The domain named system is predefined and cannot be deleted.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain the following characters: \ / : * ? " < > @	A predefined domain named system exists.
SessTimeIncl deldle	Whether to include the idle cut period or user online detection period in the user online duration to be sent to the server.	N/A	Boolean: True—The idle cut period or user online detection period is included in the user online duration to be sent to the server. False—The idle cut period or user online detection period is excluded from the user online duration to be sent to the server.	Default: false. Only portal users support the user online detection period.
State	Status of the domain.	N/A	Boolean: 0—Blocked. 1—Active.	Default: 1.
AcctStartFail Action	Access control for users that encounter accounting-start failures.	N/A	Boolean: 0—Allow the users to stay online. 1—Log off the users.	Default: 0.
ServiceType	Service type of the domain.	N/A	Enumeration: 0—High-Speed Internet (HSI) service. 1—Set Top Box (STB) service. 2—Voice over IP (VoIP) service.	Default: 0.
AuthorAttrs	Authorization attributes.	Data structure	Members include: IdleTime. IdleFlow. ProfileName.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• IpPoolName. • Ipv6PoolName. • Ipv6Address. • Ipv6PrefixLength. • PrimDnsIpaddr. • PrimDnsIpv6addr. • SecDnsIpaddr. • SecDnsIpv6addr. • PortalUrl. • VRF. • IgmpMaxAccessNum. • MldMaxAccessNum. • SessTimeOut.	
IdleTime	Idle timeout period.	N/A	Unsigned integer. Value range: 1 to 600, in minutes.	N/A
IdleFlow	The minimum traffic that must be generated in the idle timeout period.	N/A	Unsigned integer. Value range: 1 to 10240000, in bytes.	Default: 10240 bytes.
ProfileName	User profile name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid characters include letters, digits, and underscores (_). The name must start with a letter and must be unique.
IpPoolName	IPv4 address pool name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Ipv6PoolName	IPv6 address pool name.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address for specifying the prefix.	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
PrimDnsIpaddr	IPv4 address of the primary DNS server.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
PrimDnsIpv6addr	IPv6 address of the primary DNS server.	N/A	IPv6: Hexadecimal string.	IPv6 example: 1:2:3:4:5:6:7:8.
SecDnsIpaddr	IPv4 address of the secondary DNS server.	N/A	IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1.
SecDnsIpv6addr	IPv6 address of the secondary DNS server.	N/A	IPv6: Hexadecimal string.	IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortalUrl	Portal redirect URL.	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
IgmpMaxAccessNum	The maximum number of IGMP groups that an IPv4 user can join concurrently.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
MldMaxAccessNum	The maximum number of MLD groups that an IPv6 user can join concurrently.	N/A	Unsigned integer. Value range: 1 to 64.	Default: 4.
SessTimeOut	The users will be offline when the time is over.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Domain/Schemes

Domain scheme table.

XML structure

```

<Domain>
  <Schemes>
    <Scheme>
      <DomainName></DomainName>
      <AaaType></AaaType>
      <AccessType></AccessType>
      <SchemeList></SchemeList>
      <SchemeNameList></SchemeNameList>
    </Scheme>
  </Schemes>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
AaaType	AAA type.	Index	Enumeration: • 0—Authentication. • 4—Authorization. • 5—Accounting.	There are some restrictions among the columns AccessType, AaaType, and SchemeList. Those restrictions will be described in the Restrictions section below the table.
AccessType	Access type.	Index	Enumeration: • 0—Login. • 1—Super. • 2—Command. • 3—LAN access. • 4—PPP. • 5—Default. • 6—Portal. • 7—IKE. • 8—IPoE. • 9—SSL VPN. • 10—ADVPN.	
SchemeList	AAA method types.	N/A	String. Length: 1 to 9 characters, using the format of 1-2-4. A hyphen (-) is used to separate the digits that represent different AAA methods, including: • 1—HWTACACS. • 2—RADIUS. • 3—LDAP. • 4—Local. • 5—None. The string 1-2-4 indicates that HWTACACS is specified as the primary authentication, authorization, or accounting method. If the HWTACACS method fails, the RADIUS method applies. If the RADIUS method fails, the local method applies.	
SchemeNameList	Scheme name list.	N/A	String, case-insensitive. Length: 0 to 68 characters, which can contain 0 to 2 scheme names. Every scheme name contains two parts: Scheme name length and scheme name string. The scheme name is in the	If this column is not available, no schemes are specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			format of xxmm.....mm. - The xx argument represents the scheme name length. Use two digits to set the scheme name length. - The mm.....mm argument represents the scheme name string. The string is 1 to 32 characters. For example: - The string 08abcdefgh represents a scheme whose name is abcdefgh and whose name length is 8 characters. - The string 10testtestte04test represents two schemes. One scheme is named as testtestte and the name length is 10 characters. The other scheme is named as test and the name length is 4 characters.	

Restrictions:

- The letter Y indicates that a specific access type supports a specific method for authentication, authorization, or accounting.
- You can specify one primary method and multiple backup methods for authentication, authorization, or accounting. An AAA method with a lower level can be the backup of another method that has a higher level. The following list arranges the methods from high level to low level:
 - RADIUS, TACACS, or LDAP.
 - Local.
 - None.

Among the highest-level methods, the RADIUS method and the TACACS method can be the backup of each other.

- In FIPS mode, all access types cannot use the none method for authentication, authorization, or accounting.

AAA method (level)		RADIUS (3)	TACACS (3)	LDAP (3)	Local (2)	None (1)
Access type +AAA type	Default	Y	Y	Y	Y	Y
	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y
Login	Accounting	Y	Y		Y	Y
	Authentication	Y	Y	Y	Y	Y
	Authorization	Y	Y		Y	Y

	Accounting	Y	Y		Y	Y
Super	Authentication	Y	Y			
Command	Authorization		Y		Y	Y
	Accounting		Y			
LAN access (MAC authentication or 802.1X)	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
PPP	Authentication	Y	Y		Y	Y
	Authorization	Y	Y		Y	Y
	Accounting	Y	Y		Y	Y
Portal	Authentication	Y		Y	Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
IKE	Authentication	Y			Y	Y
IPoE	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y
SSL VPN	Authentication	Y		Y	Y	Y
	Authorization	Y		Y	Y	Y
	Accounting	Y			Y	Y
ADVPN	Authentication	Y			Y	Y
	Authorization	Y			Y	Y
	Accounting	Y			Y	Y

Domain/BroadcastSchemes

RADIUS broadcast scheme table for a domain.

XML structure

```

<Domain>
  <BroadcastSchemes>
    <BroadcastScheme>
      <DomainName></DomainName>
      <AccessType></AccessType>
      <SchemeName></SchemeName>
    </BroadcastScheme>
  </BroadcastSchemes>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	BroadcastSchemes
Table type	Multi-instance table
Row name	BroadcastScheme
Restrictions	Configure this table only for domains that have been configured RADIUS accounting.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The name can't contain the following characters: \ / : * ? " < > @	N/A
AccessType	Access type.	Index	Enumeration: • 3—LAN access. • 4—PPP. • 6—Portal. • 8—IPoE.	At present, only one RADIUS broadcast scheme is supported for a domain.
SchemeName	RADIUS scheme name.	Index	String. Length: 1 to 32 characters.	

Domain/Specification

The domain feature capability differs on different devices or on the same device in different states.

- Additional description for the table Domain/SessionLimit, including what service types are supported on the device in the current state. The device can limit the number of concurrent online users only for the service types that are supported in the current state.
- Additional description for the table Domain/Schemes. Whether the device supports the none method as the authentication, authorization, or accounting method.

XML structure

```
<Domain>
  <Specification>
    <SessionLimitSpecification>
      <Ftp></Ftp>
      <Telnet></Telnet>
      <Http></Http>
    </SessionLimitSpecification>
    <SchemesSpecification>
```

```

    <None></None>
  </SchemesSpecification>
</Specification>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionLimit Specification	Additional description for the table Domain/Session Limit.	Data structure	Members include: - Ftp. - Telnet. - Http.	N/A
Ftp	Whether to support the column Ftp in the table Domain/Session Limit.	N/A	Boolean: - true. - false.	- In FIPS mode, the default is false. - In non-FIPS mode, the default is true.
Telnet	Whether to support the column Telnet in the table Domain/Session Limit.	N/A	Boolean: - true. - false.	
Http	Whether to support the column Http in the table Domain/Session Limit.	N/A	Boolean: - true. - false.	
SchemesSpe cification	Additional description for the table Domain/Scheme s.	Data structure	The member is None.	N/A
None	Whether to support the none method for authentication, authorization, and accounting.	N/A	Boolean: - true. - false.	In FIPS mode, the none method is not supported for authentication, authorization, or accounting of all users.

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XML structure	3
Table description	3
Columns	3

Dot1X

Dot1X/ClearAllStatistics

This table clear Dot1X all interfaces' statistics.

XML structure

```
<Dot1X>
  <ClearAllStatistics>
    <Clear></Clear>
  </ClearAllStatistics>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ClearAllStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all interfaces' statistics.	N/A	This column must be empty

Dot1X/ClearInterStatistics

This table clears Dot1X interface statistics information.

XML structure

```
<Dot1X>
  <ClearInterStatistics>
    <Interface>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </Interface>
  </ClearInterStatistics>
```

</Dot1X>

Table description

Item	Description
Feature name	Dot1X
Table name	ClearInterStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's statistics or guest VLAN's users.	Index	Unsigned integer.
Clear	Clears the interface's statistics.	N/A	This column must be empty

Dot1X/ResetGVLANUser

This table resets Dot1X interface's all users in guest VLAN.

XML structure

```
<Dot1X>
  <ResetGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetGVLANUser>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	ResetGVLANUser
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Clears the interface's guest VLAN's users.	Index	Unsigned integer.
ResetAll	Resets the interface' users in guest VLAN.	N/A	This column must be empty

Dot1X/ResetOneGVLANUser

This table resets one of Dot1X interface users of guest VLAN.

XML structure

```

<Dot1X>
  <ResetOneGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneGVLANUser>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	ResetOneGVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's guest VLAN's user.	Index	Unsigned integer.
UserMAC	The designated user's MAC.	Index	MAC address
Reset	Resets the interface's designated user in guest VLAN	N/A	This column must be empty

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XML structure	5
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Columns	6

Dot1X

Dot1X/Protocol

This table contains Dot1X protocol related parameters information.

XML structure

```
<Dot1X>
  <Protocol>
    <Enable></Enable>
    <AuthenMethod></AuthenMethod>
    <DomainDelimiterAt></DomainDelimiterAt>
    <DomainDelimiterSlash></DomainDelimiterSlash>
    <DomainDelimiterBackSlash></DomainDelimiterBackSlash>
    <DomainDelimiterDot></DomainDelimiterDot>
    <QuietEnable></QuietEnable>
    <QuietInterval></QuietInterval>
    <HandshakeInterval></HandshakeInterval>
    <ReauthenInterval></ReauthenInterval>
    <ServerInterval></ServerInterval>
    <SupplicantInterval></SupplicantInterval>
    <ReqIDInterval></ReqIDInterval>
    <RequestRetryCount></RequestRetryCount>
  </Protocol>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Protocol
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global Dot1X feature	N/A	Boolean: true—Enabled false—Disabled(default)
AuthenMethod	Authentication Method of 802.1X	N/A	Enumeration: 1—Chap(default) 2—PAP 3—EAP
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: true—Enabled(default) false—Disabled
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: true—Enabled false—Disabled(default)
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: true—Enabled false—Disabled(default)
DomainDelimiterDot	Delimiter "." between username and domain	N/A	Boolean: true—Enabled false—Disabled(default)
QuietEnable	Enable 802.1X quiet function	N/A	Boolean: true—Enabled false—Disabled(default)
QuietInterval	Period value of Quiet timer	N/A	Unsigned integer Value range: 10 to 120 seconds. Default value is 60 second.
HandshakeInterval	Period value of handshake timer	N/A	Unsigned integer. Value range: 5 to 1024 seconds. Default value is 15 second.
ReauthenInterval	Period value of re-authentication timer	N/A	Unsigned integer. Value range: 60 to 7200 seconds. Default value is 3600 second.
ServerInterval	Period value of server response timer	N/A	Unsigned integer. Value range: 100 to 300 seconds. Default value is 100 second.
SupplicantInterval	Period value of supplicant response timer (other than EAP-Response/ID)	N/A	Unsigned integer. Value range: 1 to 120 seconds. Default value is 30 second.

Column name	Column description	Column type	Data type and restrictions
ReqIDInterval	Period value of supplicant EAP-Response /ID timer	N/A	Unsigned integer. Value range: 10 to 120 seconds. Default value is 30 second.
RequestRetryCount	Max count of retrying to send out dot1X's Request packets	N/A	Unsigned integer. Value range: 1 to 10. Default value is 2.

Dot1X/EAD

This table contains Dot1X's EAD feature.

XML structure

```

<Dot1X>
  <EAD>
    <AssistEnable></AssistEnable>
    <AssistURL></AssistURL>
  </EAD>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	EAD
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AssistEnable	Enable EAD assistant function	N/A	Boolean: true—Enabled false—Disabled(default)
AssistURL	The redirect URL used with EAD assistant function	N/A	String. Length: 1 to 64 characters.

DOT1X/EADFreeIPs

This table contains Dot1X's EAD assistant free IP.

XML structure

```
<Dot1X>
  <EADFreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </EADFreeIPs>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.
IPv4Mask	IP address mask	Index	Ipv4Mask.

Dot1X/Smarton

This table contains Dot1X's Smarton feature table.

XML structure

```
<Dot1X>
  <Smarton>
    <SwitchID></SwitchID>
```

```

    <Password></Password>
    <RetryCount></RetryCount>
  </Smarton>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	Smarton
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SwitchID	Dot1x smarton switchid	N/A	String. • Length: 1 to 30 characters.
Password	Dot1x smarton password	N/A	String. Length: 1 to 16 characters. Not return.
RetryCount	Maxium attempt count to send out Request packets with smarton notification	N/A	Unsigned integer. Value range: 1 to 10. Default value is 3.

Dot1X/Interfaces

This table contains Dot1X interface's information .

XML structure

```

<Dot1X>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <SmartonEnable></SmartonEnable>
      <PortControl></PortControl>
      <PortMethod></PortMethod>
      <ReauthenEnable></ReauthenEnable>
    </Interface>
  </Interfaces>
</Dot1X>

```

```

    <MulticastTrigger></MulticastTrigger>
    <UnicastTrigger></UnicastTrigger>
    <HandshakeEnable></HandshakeEnable>
    <SecHandshakeEnable></SecHandshakeEnable>
    <ReauthUnreachableMode></ReauthUnreachableMode>
    <MandDomain></MandDomain>
    <MaxUser></MaxUser>
    <FailVLAN></FailVLAN>
    <CriticalVLAN></CriticalVLAN>
    <GuestVLAN></GuestVLAN>
  </Interface>
</Interfaces>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Enable 802.1X	N/A	Boolean: true—Enabled false—Disabled(default)
SmartonEnable	Enable Smarton feature	N/A	Boolean: true—Enabled false—Disabled(default)
PortControl	Port control status of the interface	N/A	Enumeration: 1—authorized-force 2—unauthorized-force 3—auto(default)
PortMethod	Control Method of the interface	N/A	Enumeration: 1—Portbased 2—MACbased(default)

Column name	Column description	Column type	Data type and restrictions
ReauthenEnable	Enable periodic reauthentication feature	N/A	Boolean: true—Enabled false—Disabled(default)
FailVLAN	VLAN for users failed in authentication	N/A	Unsigned integer. Value range: 1 to 4094. Default Value is not configured.
CriticalVLAN	VLAN for users as the server is unreachable	N/A	Unsigned integer. Value range: 1 to 4094. Default Value is not configured.
GuestVLAN	VLAN used before authentication	N/A	Unsigned integer. Value range: 1 to 4094. Default Value is not configured.
HandshakeEnable	Enable handshake feature	N/A	Boolean: true—Enabled(default) false—Disabled
SecHandshakeEnable	Enable secure handshake feature	N/A	Boolean: true—Enabled false—Disabled(default)
ReauthUnreachableMode	Set user online or offline when the AAA server is not available during re-authenticating	N/A	Enumeration: 0—Offline(default) 1—Online
MandDomain	Mandatory authentication domain on this interface	N/A	String. Length: 1 to 255 characters.
MaxUser	Maximum user number on this interface	N/A	Unsigned integer. Value range: 1 to 4096. Default Value is 4096.
MulticastTrigger	Enable multicast trigger function on the interface	N/A	Boolean: true—Enabled(default) false—Disabled
UnicastTrigger	Enable unicast trigger function on the interface	N/A	Boolean: true—Enabled false—Disabled(default)

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Dot1X

Dot1X/Protocol

This table contains Dot1X protocol parameters table.

XML structure

```
<Dot1X>
  <Protocol>
    <Enable></Enable>
    <AuthenMethod></AuthenMethod>
    <DomainDelimiterAt></DomainDelimiterAt>
    <DomainDelimiterSlash></DomainDelimiterSlash>
    <DomainDelimiterBackSlash></DomainDelimiterBackSlash>
    <DomainDelimiterDot></DomainDelimiterDot>
    <QuietEnable></QuietEnable>
    <QuietInterval></QuietInterval>
    <HandshakeInterval></HandshakeInterval>
    <ReauthenInterval></ReauthenInterval>
    <ServerInterval></ServerInterval>
    <SupplicantInterval></SupplicantInterval>
    <ReqIDInterval></ReqIDInterval>
    <RequestRetryCount></RequestRetryCount>
    <OnlineUserNum></OnlineUserNum>
  </Protocol>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	Protocol
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Dot1X globally enabled status	N/A	Boolean: • true—Enabled • false—Disabled

Column name	Column description	Column type	Data type and restrictions
AuthenMethod	Authentication Method of 802.1X	N/A	Enumeration: • 1—Chap • 2—PAP • 3—EAP
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
DomainDelimiterDot	Delimiter "." between username and domain name	N/A	Boolean: • true—Enabled • false—Disabled
QuietEnable	Status Of Dot1X quiet function	N/A	Boolean: • true—Enabled • false—Disabled
QuietInterval	Period value of Quiet timer	N/A	Unsigned integer. Value range: 10 to 120 seconds.
HandshakeInterval	Period value of handshake timer	N/A	Unsigned integer. Value range: 5 to 1024 seconds.
ReauthenInterval	Period value of re-authentication timer	N/A	Unsigned integer. Value range: 60 to 7200 seconds.
ServerInterval	Period value of server response timer	N/A	Unsigned integer. Value range: 100 to 300 seconds.
SupplicantInterval	Period value of supplicant response timer (other than EAP-Response/ID packets)	N/A	Unsigned integer. Value range: 1 to 120 seconds.
ReqIDInterval	Period value of supplicant EAP-Response/ID timer	N/A	Unsigned integer. Value range: 10 to 120 seconds.
RequestRetryCount	Max count of retrying to send out dot1X's Request packets	N/A	Unsigned integer. Value range: 1 to 10.
OnlineUserNum	Current online user count	N/A	Unsigned integer.

Dot1X/EAD

This table contains Dot1X's EAD(Endpoint Admission Defense) feature table.

XML structure

```
<Dot1X>
  <EAD>
    <AssistEnable></AssistEnable>
    <AssistURL></AssistURL>
  </EAD>
</Dot1X>
```

Table description

Item	Description
Feature name	Dot1X
Table name	EAD
Table type	Single-instance table
Row name	None
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
AssistEnable	Status of EAD assistant function	N/A	Boolean: • true—Enabled • false—Disabled
AssistURL	The redirect URL used with EAD assistant function	N/A	String. Length: 1 to 64 characters.

DOT1X/EADFreeIPs

This table contains Dot1X's EAD assistant free IP.

XML structure

```
<Dot1X>
  <EADFreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </EADFreeIPs>
</Dot1X>
```

```

    </EADFreeIPs>
  </Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	EADFreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.
IPv4Mask	IP address mask	Index	IPv4Mask.

Dot1X/Smarton

This table contains Dot1X's Smarton feature table.

XML structure

```

<Dot1X>
  <Smarton>
    <SwitchID></SwitchID>
    <Password></Password>
    <RetryCount></RetryCount>
  </Smarton>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	Smarton
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SwitchID	Dot1x smarton switchid	N/A	String. • Length: 1 to 30 characters.
Password	Dot1x smarton password	N/A	Null or ****Not return.
RetryCount	Maxium attempt count to send out Request packets with smarton notification	N/A	Unsigned integer. Value range: 1 to 10.

Dot1X/Interfaces

This table contains Dot1X interface's information.

XML structure

```

<Dot1X>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <SmartonEnable></SmartonEnable>
      <PortControl></PortControl>
      <PortMethod></PortMethod>
      <PortRole></PortRole>
      <ReauthenEnable></ReauthenEnable>
      <MulticastTrigger></MulticastTrigger>
      <UnicastTrigger></UnicastTrigger>
      <HandshakeEnable></HandshakeEnable>
      <SecHandshakeEnable></SecHandshakeEnable>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MandDomain></MandDomain>
      <MaxUser></MaxUser>
      <FailVLAN></FailVLAN>
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <OnlineUserNum></OnlineUserNum>
      <RcvPktNum></RcvPktNum>
      <SndPktNum></SndPktNum>
      <StartPktNum></StartPktNum>
      <LogoffPktNum></LogoffPktNum>
      <RespIDPktNum></RespIDPktNum>
    </Interface>
  </Interfaces>
</Dot1X>

```

```

    <RespPktNum></RespPktNum>
    <ReqIDPktNum></ReqIDPktNum>
    <ReqPktNum></ReqPktNum>
    <RcvErrorPktNum></RcvErrorPktNum>
  </Interface>
</Interfaces>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Enable Status of 802.1X	N/A	Boolean: true—Enabled false—Disabled
SmartonEnable	Enable Status of Smarton feature	N/A	Boolean: true—Enabled false—Disabled
PortControl	Port control status of the interface	N/A	Enumeration: 1—authorized-force 2—unauthorized-force 3—auto
PortMethod	Control Method of the interface	N/A	Enumeration: 1—Portbased 2—MACbased
PortRole	Role of the interface in authentication	N/A	Enumeration: 1—Authenticator
ReauthenEnable	Enable Status of periodic reauthentication feature	N/A	Boolean: true—Enabled false—Disabled
FailVLAN	VLAN for users failed in authentication	N/A	Unsigned integer. Value range: 1 to 4094.
CriticalVLAN	VLAN for users as the server is unreachable	N/A	Unsigned integer. Value range: 1 to 4094.

Column name	Column description	Column type	Data type and restrictions
GuestVLAN	VLAN used before authentication	N/A	Unsigned integer. Value range: 1 to 4094.
HandshakeEnable	Enable status of handshake feature on the interface	N/A	Boolean: true—Enabled false—Disabled
SecHandshakeEnable	Enable status of secure handshake feature on the interface	N/A	Boolean: true—Enabled false—Disabled
ReauthUnreachableMode	Status of user online or offline when the AAA server is not available during re-authenticating	N/A	Enumeration: 0—Offline 1—Online
MandDomain	Mandatory authentication domain on this interface	N/A	String. Length: 1 to 255 characters.
MaxUser	Maximum user number on this interface	N/A	Unsigned integer. Value range: 1 to 4096.
MulticastTrigger	Enable status of multicast trigger function on the interface	N/A	Boolean: true—Enabled false—Disabled
UnicastTrigger	Enable status of unicast trigger function on the interface	N/A	Boolean: true—Enabled false—Disabled
OnlineUserNum	Number of online 802.1X users of the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RcvPktNum	Number of received EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
SndPktNum	Number of sent EAPOL packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
StartPktNum	Number of received EAPOL-Start packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
LogoffPktNum	Number of received EAPOL-LogOff packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RespIDPktNum	Number of received EAP-Response/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RespPktNum	Number of received EAP-Response(other than EAP-Response/ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
ReqIDPktNum	Number of sent EAP-Request/ID packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
ReqPktNum	Number of sent EAP-Request (other than EAP-Request /ID) packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.
RcvErrorPktNum	Number of received error packets on the interface	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.

Dot1X/InterfaceUsers

This table displays Dot1X users' information.

XML structure

```

<Dot1X>
  <InterfaceUsers>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Name></Name>
      <Domain></Domain>
      <Ipv4Addr></Ipv4Addr>
      <Ipv6Addr></Ipv6Addr>
      <InitialVLAN></InitialVLAN>
      <AuthzVLAN></AuthzVLAN>
      <AuthzACLGroup></AuthzACLGroup>
      <AuthzUserProfile></AuthzUserProfile>
      <TermAction></TermAction>
      <TimeoutPeriod></TimeoutPeriod>
      <LogonTime></LogonTime>
      <OnlineDuration></OnlineDuration>
    </Interface>
  </InterfaceUsers>
</Dot1X>

```

Table description

Item	Description
Feature name	Dot1X
Table name	InterfaceUsers
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
UserMAC	MAC address of user on the interface.	Index	MAC address
Name	User name when logs on	N/A	String. Length: 1 to 253 characters.
Domain	User's domain when logs on	N/A	String. Length: 1 to 255 characters.
Ipv4Addr	IPv4 address of the user	N/A	String, dotted decimal notation.
Ipv6Addr	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
InitialVLAN	VLAN ID used by the user when logs on	N/A	Unsigned integer Value range: 1 to 4094.
AuthzVLAN	VLAN ID allocated for authenticated user by the AAA server	N/A	Unsigned integer Value range: 1 to 4094.
AuthzACLGroup	ACL group number allocated for authenticated user by the AAA server	N/A	Unsigned integer
AuthzUserProfile	User Profile name allocated for authenticated user by the AAA server	N/A	String.
TermAction	Action attribute assigned by the AAA server when the session timeout timer expires	N/A	Enumeration: 0—Default. 1—Radius-request.
TimeoutPeriod	Period value of session timeout timer assigned by the server timer	N/A	Unsigned integer
LogonTime	Time from which the user logs on	N/A	String.Format: YYYY-MM-DD HH:MM:SS.
OnlineDuration	Online duration of the user	N/A	Unsigned integer.

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DropStatistics

DropStatistics/ClearAppStatistics

This table contains information about the cleared statistics of packet loss.

XML structure

```
<DropStatistics>
  <ClearAppStatistics>
    <ClearAppStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <Clear></Clear>
    </ClearAppStatistic>
  </ClearAppStatistics>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	ClearAppStatistics
Table type	Multi-instance table
Row name	ClearAppStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the application	N/A	String. Length: 1 to 15 characters.	N/A
Clear	Clear statistics of packet loss for	N/A	This column must be empty.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	an application			

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XML structure	2
Table description	2
Columns	2

DropStatistics

DropStatistics/SummaryStatistics

This table contains the summaries of packet loss.

XML structure

```
<DropStatistics>
  <SummaryStatistics>
    <SummaryStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SumStatisticsString></SumStatisticsString>
    </SummaryStatistic>
  </SummaryStatistics>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	SummaryStatistics
Table type	Multi-instance table
Row name	SummaryStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
SumStatistics String	Summaries of packet loss.	N/A	String.	Separate the pack loss applications with comma(.). Separate the application and value

Column name	Column description	Column type	Data type and restrictions	Remarks
				with colon(:). Can not contain spaces.

DropStatistics/AppDetailStatistics

This table contains the details of packet loss for an application.

XML structure

```

<DropStatistics>
  <AppDetailStatistics>
    <AppDetailStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <AppDetailString></AppDetailString>
    </AppDetailStatistic>
  </AppDetailStatistics>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDetailStatistics
Table type	Multi-instance table
Row name	AppDetailStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Application		Length: 1 to 15 characters.	
AppDetailString	Details of the application's packet loss.	N/A	String.	Separate the pack loss types with comma(.). Separate the type and value with colon(:). Can not contain spaces.

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XML structure	2
Table description	3
Columns	3

ETH

ETH/SubInterfaces

This table contains VLAN termination information.

XML structure

```
<ETH>
  <SubInterfaces>
    <SubInterface>
      <IfIndex></IfIndex>
      <EncapType></EncapType>
      <VlanID></VlanID>
      <FirstVlanList></FirstVlanList>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </SubInterface>
  </SubInterfaces>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	SubInterfaces
Table type	Multi-instance table
Row name	SubInterface
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
EncapType	VLAN termination type	N/A	Enumeration: 0—None. 1—Dot1q unambiguous. 2—Dot1q ambiguous. 5—Untagged. 6—Default.	N/A
VlanID	Outermost VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094	Outermost VLAN tag for unambiguous VLAN termination. Used when the "EncapType" column is 1.
FirstVlanList	Outermost VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of <i>vlan-id1</i> to <i>vlan-id2</i> . The value range for VLAN IDs is 1 to 4094. The value for the <i>vlan-id2</i> argument must be equal to or greater than the value for the <i>vlan-id1</i> argument. Used when the "EncapType" column is 2.
EncapFlag	Configures the subinterface to terminate packets that include one or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	0—STRICT 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: - true—user-vlan. - false—vlan-type.	Some version might not support this column.

ETH/VlanQinQTermination

This table contains QinQ VLAN termination information.

XML structure

```
<ETH>
  <VlanQinQTermination>
```

```

<QinqTermination>
  <IfIndex></IfIndex>
  <VlanID></VlanID>
  <SecondVlan></SecondVlan>
  <QinqAny></QinqAny>
  <EncapFlag></EncapFlag>
  <IsUserVlanMode></IsUserVlanMode>
</QinqTermination>
</VlanQinqTermination>
</ETH>

```

Table description

Item	Description
Feature name	ETH
Table name	VlanQinqTermination
Table type	Multi-instance table
Row name	QinqTermination
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VlanID	Layer 1 VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
SecondVlan	Layer 2 VLAN ID or VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of <i>vlan-id1</i> to <i>vlan-id2</i> . The value range for VLAN IDs is 1 to 4094. The value for the <i>vlan-id2</i> argument must be equal to or greater than the value for the <i>vlan-id1</i>

Column name	Column description	Column type	Data type and restrictions	Remarks
				argument. Note: The "SecondVlan" column and the "QinqAny" column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	N/A	Unsigned integer. Value range: 1	Note: The "SecondVlan" column and the "QinqAny" column cannot be configured at the same time.
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• 0—STRICT • 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • true—user-vlan. • false—vlan-type.	Some versions might not support this column.

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XML structure	2
Table description	2
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XML structure	3
Table description	4
Columns	4

ETH

ETH/SubInterfaces

This table contains VLAN termination information.

XML structure

```
<ETH>
  <SubInterfaces>
    <SubInterface>
      <IfIndex></IfIndex>
      <EncapType></EncapType>
      <VlanID></VlanID>
      <FirstVlanList></FirstVlanList>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </SubInterface>
  </SubInterfaces>
</ETH>
```

Table description

Item	Description
Feature name	ETH
Table name	SubInterfaces
Table type	Multi-instance table
Row name	SubInterface
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.

Column name	Column description	Column type	Data type and restrictions	Remarks
EncapType	VLAN termination type	N/A	Enumeration: 0—None. 1—Dot1q unambiguous. 2—Dot1q ambiguous. 3—Qinq unambiguous. 4—Qinq ambiguous. 5—Untagged. 6—Default.	N/A
VlanID	Outermost VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094	Outermost VLAN tag for unambiguous VLAN termination.
FirstVlanList	Outermost VLAN ID list	N/A	String.	A range of outermost VLAN IDs.
EncapFlag	Configures the subinterface to terminate packets that include one or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	0—STRICT 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: - true—user-vlan. - false—vlan-type.	Some versions might not support this column.

ETH/ETHSpecification

This table contains VLAN termination support information.

XML structure

```

<ETH>
  <ETHSpecification>
    <SupportDot1q></SupportDot1q>
    <SupportQinq></SupportQinq>
    <SupportUntagged></SupportUntagged>
    <SupportDefault></SupportDefault>
    <SupportLoose></SupportLoose>
  </ETHSpecification>
</ETH>

```

Table description

Item	Description
Feature name	ETH

Table name	ETHSpecification
Table type	Multi-instance table
Row name	N/A
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
SupportDot1q	Whether Dot1q termination is supported	N/A	Boolean: - true - false
SupportQinq	Whether Qinq termination is supported	N/A	Boolean: - true - false
SupportUntagged	Whether Untagged termination is supported	N/A	Boolean: - true - false
SupportDefault	Whether Default termination is supported	N/A	Boolean: - true - false
SupportLoose	Whether the subinterface supports terminating packets that include one or more layers of VLAN tags.	N/A	Boolean: - true - false

ETH/VlanQinQTermination

This table contains QinQ VLAN termination information.

XML structure

```

<ETH>
  <VlanQinQTermination>
    <QinqTermination>
      <IfIndex></IfIndex>
      <VlanID></VlanID>
      <SecondVlan></SecondVlan>
      <QinqAny></QinqAny>
      <EncapFlag></EncapFlag>
      <IsUserVlanMode></IsUserVlanMode>
    </QinqTermination>
  </VlanQinQTermination>
</ETH>

```

Table description

Item	Description
Feature name	ETH
Table name	VlanQinQTermination
Table type	Multi-instance table
Row name	QinqTermination
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
VlanID	Layer 1 VLAN ID	Index	Unsigned integer. Value range: 1 to 4094	N/A
SecondVlan	Layer 2 VLAN ID or VLAN ID list	N/A	String.	Specifies a space-separated VLAN ID list items. Each item specifies a VLAN ID or a range of VLAN IDs in the form of <i>vlan-id1</i> to <i>vlan-id2</i> . The value range for VLAN IDs is 1 to 4094. The value for the <i>vlan-id2</i> argument must be equal to or greater than the value for the <i>vlan-id1</i> argument. Note: The "SecondVlan" column and the "QinqAny" column cannot be configured at the same time.
QinqAny	Specifies all values between 1 and 4094	N/A	Unsigned integer. Value range: 1	Note: The "SecondVlan" column and the "QinqAny" column cannot be configured at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
EncapFlag	Configures the subinterface to receive and terminate packets that include two or more layers of VLAN tags	N/A	Unsigned integer. Value range: 0 to 1	• 0—STRICT • 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: • true—user-vlan. • false—vlan-type.	Some versions might not support this column.

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FCFabric

FCFabric/SmartSANStatus

This table contains the status of Smart SAN for FC/FCoE and iSCSI.

XML structure

```
<FCFabric>
  <SmartSANStatus>
    <FCoEStatus></FCoEStatus>
    <iSCSIStatus></iSCSIStatus>
  </SmartSANStatus>
</FCFabric>
```

Table description

Item	Description
Feature name	FCFabric
Table name	SmartSANStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FCoEStatus	Status of Smart SAN for FC/FCoE.	N/A	Boolean: • true—Enabled. • false—Disabled(default).
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: • true—Enabled. • false—Disabled(default).

Contents

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FCFabric

FCFabric/SmartSANStatus

This table contains the status of Smart SAN for FC/FCoE and iSCSI.

XML structure

```
<FCFabric>
  <SmartSANStatus>
    <FCoEStatus></FCoEStatus>
    <iSCSIStatus></iSCSIStatus>
  </SmartSANStatus>
</FCFabric>
```

Table description

Item	Description
Feature name	FCFabric
Table name	SmartSANStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FCoEStatus	Status of Smart SAN for FC/FCoE.	N/A	Boolean: • true—Enabled. • false—Disabled.
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: • true—Enabled. • false—Disabled.

Comware 7 FCLink NETCONF XML API Data Reference

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- FCLink.....]
- FCLink/PortEntryInfo.....]
- XML structure.....]
- Table description.....]
- Columns.....]

FCLink

FCLink/PortEntryInfo

This table contains information about a port.

XML structure

```
<FCLink>
  <PortEntryInfo>
    <EntryInfo>
      <IfIndex></IfIndex>
      <PortWwn></PortWwn>
    </EntryInfo>
  </PortEntryInfo>
</FCLink>
```

Table description

Item	Description
Feature name	FCLink
Table name	PortEntryInfo
Table type	Multi-instance table
Row name	EntryInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
PortWwn	WWN of the port.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4.

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FCZone

FCZone/ZoneStatus

This table contains zone status information in a VSAN.

XML structure

```
<FCZone>
  <ZoneStatus>
    <StatusInfo>
      <VSANID></VSANID>
      <DefaultZoneStatus></DefaultZoneStatus>
      <Mode></Mode>
    </StatusInfo>
  </ZoneStatus>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ZoneStatus
Table type	Multi-instance table
Row name	StatusInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.
DefaultZoneStatus	Default zone status.	N/A	Enumeration: 1—Deny(default). 2—Permit.
Mode	Zoning mode.	N/A	Enumeration: 1—Basic zoning(default). 2—Enhanced zoning.

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FCZone

FCZone/ZoneStatus

This table contains zone status information in a VSAN.

XML structure

```
<FCZone>
  <ZoneStatus>
    <StatusInfo>
      <VSANID></VSANID>
      <DefaultZoneStatus></DefaultZoneStatus>
      <Mode></Mode>
    </StatusInfo>
  </ZoneStatus>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ZoneStatus
Table type	Multi-instance table
Row name	StatusInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
DefaultZoneStatus	Default zone status.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
Mode	Zoning mode.	N/A	Enumeration: 1—Basic zoning. 2—Enhanced zoning.	N/A

FCZone/ActiveZones

This table contains zone information about the active zone set in a VSAN.

XML structure

```
<FCZone>
  <ActiveZones>
    <ActiveZone>
      <VSANID></VSANID>
      <ZoneName></ZoneName>
      <ZoneSetName></ZoneSetName>
      <ZoneType></ZoneType>
    </ActiveZone>
  </ActiveZones>
</FCZone>
```

Table description

Item	Description
Feature name	FCZone
Table name	ActiveZones
Table type	Multi-instance table
Row name	ActiveZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
ZoneName	Name of the zone.	Index	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols (\$-^_).

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneSetName	Name of the zone set.	N/A	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols (\$-^_).
ZoneType	Zone type.	N/A	Enumeration: 1—Base zone. 2—Peer zone.	N/A

FCZone/ActiveZoneMembers

This table contains zone member information about the active zone set in a VSAN.

XML structure

```

<FCZone>
  <ActiveZoneMembers>
    <ActiveZoneMember>
      <VSANID></VSANID>
      <ZoneName></ZoneName>
      <ZoneMemberIndex></ZoneMemberIndex>
      <ZoneMemberLoginFlag></ZoneMemberLoginFlag>
      <ZoneMemberPrincipalFlag></ZoneMemberPrincipalFlag>
      <ZoneMemberType></ZoneMemberType>
      <ZoneMemberFCID></ZoneMemberFCID>
      <ZoneMemberWWN></ZoneMemberWWN>
      <ZoneMemberRole></ZoneMemberRole>
    </ActiveZoneMember>
  </ActiveZoneMembers>
</FCZone>

```

Table description

Item	Description
Feature name	FCZone
Table name	ActiveZoneMembers
Table type	Multi-instance table
Row name	ActiveZoneMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
ZoneName	Name of the zone.	Index	String. Length: 1 to 64 characters.	The first character of a given name must be a letter. Any character other than the first character can be a lowercase character (a-z), an uppercase character (A-Z), a number (0-9), or one of the following symbols (\$-^_).
ZoneMemberIndex	Index of the zone member.	Index	Unsigned integer.	N/A
ZoneMemberLoginFlag	Whether the zone member can be found in the local name server database.	N/A	Boolean: - true. - false.	N/A.
ZoneMemberPrincipalFlag	Whether the zone member is a principal member in a peer zone.	N/A	Boolean: - true. - false.	This column is displayed only when the zone type is peer zone.
ZoneMemberType	Zone member type.	N/A	Enumeration: 1—PWWN. 3—FCID. 6—FWWN.	N/A.
ZoneMemberFCID	FC address of the zone member.	N/A	Hexadecimal representation of the three bytes.	This column is displayed only when the ZoneMemberType column is 3. Example: 050012.
ZoneMemberWWN	WWN of the zone member.	N/A	Eight groups of two hexadecimal digits, colon-separated.	This column is displayed only when the ZoneMemberType column is 1 or 6. Example: 11:11:11:11:11:11:11:12.
ZoneMemberRole	Role of the zone member.	N/A	Enumeration: 0—initiator and target. 1—initiator. 2—target.	N/A.

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FDMI

FDMI/RDPInterval

This table contains configurations of the interval for sending RDP request packets.

XML structure

```
<FDMI>
  <RDPInterval>
    <Interval></Interval>
  </RDPInterval>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	RDPInterval
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval for sending RDP request packet	N/A	Unsigned integer. Value range: 5 to 1440.	The default value is 30 minutes.

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Columns	27

FDMI

FDMI/HBAAttributes

This table contains the HBA(Host Bus Adapter) attribute descriptions.

XML structure

```
<FDMI>
  <HBAAttributes>
    <Attribute>
      <VSANID></VSANID>
      <HBAID></HBAID>
      <Manufacturer></Manufacturer>
      <SerialNumber></SerialNumber>
      <Model></Model>
      <ModelDescription></ModelDescription>
      <NodeName></NodeName>
      <NodeSymbolicName></NodeSymbolicName>
      <HardwareVersion></HardwareVersion>
      <DriverVersion></DriverVersion>
      <OptionROMVersion></OptionROMVersion>
      <FirmwareVersion></FirmwareVersion>
      <OSName></OSName>
      <MaxCTPayload></MaxCTPayload>
      <VendorID></VendorID>
      <VendorInformation></VendorInformation>
      <PortNumber></PortNumber>
      <FabricName></FabricName>
      <BootBIOSVersion></BootBIOSVersion>
      <BootBIOSState></BootBIOSState>
    </Attribute>
  </HBAAttributes>
</FDMI>
```

Table description

Item	Description
Feature name	FDMI
Table name	HBAAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
HBAID	HBA ID.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4 .
Manufacturer	Manufacturer of the HBA.	N/A	String. Length: 1 to 63 characters.	N/A
SerialNumber	Serial number of the HBA.	N/A	String. Length: 1 to 63 characters.	N/A
Model	Model of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
ModelDescription	Model description of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
NodeName	WWN of the node containing the HBA.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f5 .
NodeSymbolicName	Node symbolic name.	N/A	String. Length: 1 to 255 characters.	N/A
HardwareVersion	Hardware version of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
DriverVersion	Version of the driver software.	N/A	String. Length: 1 to 255 characters.	N/A
OptionROMVersion	ROM version of the HBA.	N/A	String. Length: 1 to 255 characters.	N/A
FirmwareVersion	Version of the firmware.	N/A	String. Length: 1 to 255 characters.	N/A
OSName	Type and version of the operating system.	N/A	String. Length: 1 to 255 characters.	N/A
MaxCTPayload	Maximum CT payload.	N/A	Unsigned integer.	N/A
VendorID	Vendor identifier.	N/A	String. Length: 1 to 8characters.	This column contains the T10 vendor ID of the manufacturer of the HBA, or an OEM of the HBA.
VendorInformation	Vendor-specific information.	N/A	Unsigned integer.	N/A
PortNumber	Number of the Nx_Port on the HBA.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FabricName	Fabric name.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:01:00:e0:fc:a1:58:00 .
BootBIOSVersion	Boot BIOS version.	N/A	String. Length: 1 to 255 characters.	N/A
BootBIOSState	Boot BIOS state.	N/A	Enumeration: 4294967295—Enabled. 0—Disabled.	If the HBA provides a boot BIOS and the boot BIOS is enabled, the value of the Boot BIOS State attribute is set to FF FF FF FFh. If the HBA provides a boot BIOS and the boot BIOS is disabled, the value of the Boot BIOS State attribute is set to zero.

FDMI/PortAttributes

This table contains port attributes that are registered with the Name Server or HBA Management Server.

XML structure

```

<FDMI>
  <PortAttributes>
    <Attribute>
      <VSANID></VSANID>
      <HBAID></HBAID>
      <PortName></PortName>
      <PortSymbolicName></PortSymbolicName>
      <PortID></PortID>
      <PortType></PortType>
      <ServiceClass></ServiceClass>
      <SupportedFC4Types></SupportedFC4Types>
      <PortActiveFC4Types></PortActiveFC4Types>
      <SupportedSpeed></SupportedSpeed>
      <CurrentPortSpeed></CurrentPortSpeed>
      <MaximumFrameSize></MaximumFrameSize>
      <OSDeviceName></OSDeviceName>
      <HostName></HostName>
      <NodeName></NodeName>
      <PortFabricName></PortFabricName>
      <PortState></PortState>
      <DiscoveredPortNumber></DiscoveredPortNumber>
      <SmartSANServiceCategory></SmartSANServiceCategory>
      <SmartSANGUID></SmartSANGUID>

```

```

    <SmartSANVersion></SmartSANVersion>
    <SmartSANProductName></SmartSANProductName>
    <SmartSANPortInformation></SmartSANPortInformation>
    <SmartSANQoSsupport></SmartSANQoSsupport>
    <SmartSANSecuritySupport></SmartSANSecuritySupport>
    <SmartSANConnectedPorts></SmartSANConnectedPorts>
  </Attribute>
</PortAttributes>
</FDMI>

```

Table description

Item	Description
Feature name	FDMI
Table name	PortAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VSANID	VSAN ID.	Index	Unsigned integer. Value range: 1 to 3839.	N/A
HBAID	HBA ID.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4 .
PortName	WWN of the port.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4 .
PortSymbolic Name	Symbolic name of the port.	N/A	String. Length: 1 to 255 characters.	N/A
PortID	FC address of the Port.	N/A	Hexadecimal representation of the three bytes.	Example: 020000.
PortType	Port type.	N/A	Unsigned integer.	• 0—Unidentified. • 1—N_Port. • 2—NL_Port. • 3—FL_Port/ NL_Port. • 127—Nx_Port. • 129—F_Port. • 130—FL_Port. • 132—E_Port. • 133—B_Port. • Other—Unknown.

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceClass	Supported class of service.	N/A	Each bit represents a type. As follows: • 1—Class F. • 2—Class 1. • 4—Class 2. • 8—Class 3. • 16—Class 4. • 64—Class 6. • Other—Unknown.	N/A
SupportedFC4Types	Supported FC-4 types.	N/A	Data transmission using Base64 encoding, decoding is as follows: Bitmap. Length: 256 bits. Each octet within this value specifies a set of eight types, with the first octet specifying types 0 through 7, the second octet specifying ports 8 through 15, etc. Within each octet, the most significant bit represents the lowest numbered type, and the least significant bit represents the highest numbered type.	N/A
PortActiveFC4Types	Active FC-4 types of the port.	N/A	Data transmission using Base64 encoding, decoding is as follows: Bitmap. Length: 256 bits. Each octet within this value specifies a set of eight types, with the first octet specifying types 0 through 7, the second octet specifying ports 8 through 15, etc. Within each octet, the most significant bit represents the lowest numbered type, and the least significant bit represents the highest numbered type.	N/A
SupportedSpeed	Supported speed.	N/A	Each bit represents a speed. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps. • 64—32 Gbps. • 128—20 Gbps. • 256—40 Gbps. • 32768—The speed has not been obtained or cannot be obtained.	Other values are reserved.

Column name	Column description	Column type	Data type and restrictions	Remarks
CurrentPortSpeed	Current port speed.	N/A	Each bit represents a speed. As follows: • 1—1 Gbps. • 2—2 Gbps. • 4—10 Gbps. • 8—4 Gbps. • 16—8 Gbps. • 32—16 Gbps. • 64—32 Gbps. • 128—20 Gbps. • 256—40 Gbps. • 32768—The speed has not been obtained or cannot be obtained.	Other values are reserved.
MaximumFrameSize	Maximum FC frame payload size.	N/A	Unsigned integer.	N/A
OSDeviceName	OS device name.	N/A	String. Length: 1 to 255 characters.	N/A
HostName	Name of the host associated with the Nx_Port.	N/A	String. Length: 1 to 255 characters.	N/A
NodeName	WWN of the node containing the port .	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 50:01:43:80:12:09:54:f4 .
PortFabricName	Port fabric name.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:01:00:e0:fc:a1:58:00 .
PortState	Port state.	N/A	Unsigned integer.	N/A
DiscoveredPortNumber	Number of discovered ports.	N/A	Unsigned integer.	N/A
SmartSANServiceCategory	Smart SAN service category.	N/A	String. Length: 1 to 255 characters	N/A
SmartSANGUID	Smart SAN globally unique identifier.	N/A	Five groups of hexadecimal digits, hyphen-separated. Format: XXXXXXXX-XXXX-XXXX-XXX X-XXXXXXXXXXXX	Example: 50014380-1209-54f5-5001-4380120954f4.
SmartSANVersion	Smart SAN version.	N/A	String. Length: 1 to 255 characters	N/A
SmartSANProductName	Smart SAN product name (model).	N/A	String. Length: 1 to 255 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartSANPortInformation	Smart SAN port information.	N/A	Enumeration: 1—Physical. 2—NPIV. 3—SRIOV. - Other—Unknown.	N/A
SmartSANQoSsupport	Smart SAN QoS support.	N/A	Enumeration: 0—Not supported. 1—Supported. - Other—Unknown.	N/A
SmartSANSecuritySupport	Smart SAN security support.	N/A	Enumeration: 0—Not supported. 1—Tier-1. 2—Tier-2. 3—Tier-3. - Other—Unknown.	N/A
SmartSANConnectedPorts	Smart SAN connected ports. For Host Port registration, this field will display the connected Target Port information. For Target Port registration, this field will display the connected Initiator Port information.	N/A	The combination of the WWNs of ports, blank-separated.	N/A

FDMI/DiagnosticParameterDescriptors

This table contains diagnostic parameter descriptors for the Fx_Port and Nx_Port.

XML structure

```

<FDMI>
  <DiagnosticParameterDescriptors>
    <Descriptor>
      <PortName></PortName>
      <NodeName></NodeName>
      <FabricPortName></FabricPortName>
      <FabricNodeName></FabricNodeName>
      <PortSpeed>
        <SpeedCapabilities></SpeedCapabilities>
        <OperatingSpeed></OperatingSpeed>
      </PortSpeed>
      <PortPhyType></PortPhyType>
    </Descriptor>
  </DiagnosticParameterDescriptors>
</FDMI>

```

```

<FCoELinkErrorStatusBlock>
  <FCoELinkFailureCount></FCoELinkFailureCount>
  <VirtualLinkFailureCount></VirtualLinkFailureCount>
  <MissingFIPCount></MissingFIPCount>
  <SymbolErrorCount></SymbolErrorCount>
  <ErroredBlockCount></ErroredBlockCount>
  <FCSErrorCount></FCSErrorCount>
</FCoELinkErrorStatusBlock>
<FCLinkErrorStatusBlock>
  <FCLinkFailureCount></FCLinkFailureCount>
  <LossOfSyncCount></LossOfSyncCount>
  <LossOfSignalCount></LossOfSignalCount>
  <ProtocolError></ProtocolError>
  <InvalidWord></InvalidWord>
  <InvalidCRCCCount></InvalidCRCCCount>
</FCLinkErrorStatusBlock>
<SFPDiagnosticsParameters>
  <SFPNotValid></SFPNotValid>
  <SFPTemperature></SFPTemperature>
  <SFPTempState></SFPTempState>
  <SFPTempHAlarm></SFPTempHAlarm>
  <SFPTempLAlarm></SFPTempLAlarm>
  <SFPTempHWarn></SFPTempHWarn>
  <SFPTempLWarn></SFPTempLWarn>
  <SFPVoltage></SFPVoltage>
  <SFPVoltageState></SFPVoltageState>
  <SFPVoltageHAlarm></SFPVoltageHAlarm>
  <SFPVoltageLAlarm></SFPVoltageLAlarm>
  <SFPVoltageHWarn></SFPVoltageHWarn>
  <SFPVoltageLWarn></SFPVoltageLWarn>
  <TxBias></TxBias>
  <TxBiasState></TxBiasState>
  <TxBiasHAlarm></TxBiasHAlarm>
  <TxBiasLAlarm></TxBiasLAlarm>
  <TxBiasHWarn></TxBiasHWarn>
  <TxBiasLWarn></TxBiasLWarn>
  <TxPower></TxPower>
  <TxPowerState></TxPowerState>
  <TxPowerHAlarm></TxPowerHAlarm>
  <TxPowerLAlarm></TxPowerLAlarm>
  <TxPowerHWarn></TxPowerHWarn>
  <TxPowerLWarn></TxPowerLWarn>
  <RxPower></RxPower>
  <RxPowerState></RxPowerState>
  <RxPowerHAlarm></RxPowerHAlarm>
  <RxPowerLAlarm></RxPowerLAlarm>
  <RxPowerHWarn></RxPowerHWarn>
  <RxPowerLWarn></RxPowerLWarn>

```

```

<SFPPortTxType></SFPPortTxType>
<SFPOpticalPort></SFPOpticalPort>
<SFPCConnectorType></SFPCConnectorType>
<SFPFECAActive></SFPFECAActive>
</SFPDiagnosticsParameters>
<QSFPDiagnosticsParameters>
  <QSFPNotValid></QSFPNotValid>
  <QSFPTemperature></QSFPTemperature>
  <QSFPTempState></QSFPTempState>
  <QSFPTempHAlarm></QSFPTempHAlarm>
  <QSFPTempLAlarm></QSFPTempLAlarm>
  <QSFPTempHWarn></QSFPTempHWarn>
  <QSFPTempLWarn></QSFPTempLWarn>
  <QSFPVoltage></QSFPVoltage>
  <QSFPVoltageState></QSFPVoltageState>
  <QSFPVoltageHAlarm></QSFPVoltageHAlarm>
  <QSFPVoltageLAlarm></QSFPVoltageLAlarm>
  <QSFPVoltageHWarn></QSFPVoltageHWarn>
  <QSFPVoltageLWarn></QSFPVoltageLWarn>
  <LaneIdentifierFlag></LaneIdentifierFlag>
  <LaneIdentifier></LaneIdentifier>
  <QSFPtxBiasHAlarm></QSFPtxBiasHAlarm>
  <QSFPtxBiasLAlarm></QSFPtxBiasLAlarm>
  <QSFPtxBiasHWarn></QSFPtxBiasHWarn>
  <QSFPtxBiasLWarn></QSFPtxBiasLWarn>
  <Lane0TxBias></Lane0TxBias>
  <Lane0TxBiasState></Lane0TxBiasState>
  <Lane1TxBias></Lane1TxBias>
  <Lane1TxBiasState></Lane1TxBiasState>
  <Lane2TxBias></Lane2TxBias>
  <Lane2TxBiasState></Lane2TxBiasState>
  <Lane3TxBias></Lane3TxBias>
  <Lane3TxBiasState></Lane3TxBiasState>
  <QSFPtxPowerHAlarm></QSFPtxPowerHAlarm>
  <QSFPtxPowerLAlarm></QSFPtxPowerLAlarm>
  <QSFPtxPowerHWarn></QSFPtxPowerHWarn>
  <QSFPtxPowerLWarn></QSFPtxPowerLWarn>
  <Lane0TxPower></Lane0TxPower>
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Table description

Item	Description
Feature name	FDMI
Table name	DiagnosticParameterDescriptors
Table type	Multi-instance table
Row name	Descriptor
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortName	WWN of the port.	Index	Eight groups of two hexadecimal digits, colon-separated.	Example: 28:05:00:e0:fc:f1:58:2a.
NodeName	WWN of the node containing the port.	N/A	Eight groups of two hexadecimal digits, colon-separated.	Example: 20:00:00:e0:fc:f1:e8:00.
FabricPortName	Name of a port on a node in the fabric.	N/A	Eight groups of two hexadecimal digits, colon-separated.	N/A
FabricNodeName	Name of a node in the fabric.	N/A	Eight groups of two hexadecimal digits, colon-separated.	This column takes effect only when the FabricPortName column is valid.
PortSpeed	Port speed descriptor.	Data structure	Members include: - SpeedCapabilities. - OperatingSpeed.	N/A
SpeedCapabilities	Port speed capabilities.	N/A	Each bit represents a port speed capability. As follows: 1—1 Gbps. 2—2 Gbps. 4—10 Gbps. 8—4 Gbps. 16—8 Gbps. 32—16 Gbps. 64—32 Gbps. - Other—Unknown.	N/A
OperatingSpeed	Port operating speed.	N/A	Each bit represents a port operating speed. As follows: 1—1 Gbps. 2—2 Gbps. 4—10 Gbps. 8—4 Gbps. 16—8 Gbps. 32—16 Gbps. 64—32 Gbps. 32768—Speed not established. - Other—Unknown.	N/A
PortPhyType	Type of the physical interface for the PN_Port or PF_Port through which the RNID request was received.	N/A	Enumeration: 0—No Information about Phy Type is provided. 64—FC. 128—VFC.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FCoELinkErrorStatusBlock	Link error status block format for FCoE	Data structure	Members include: - FCoELinkFailureCount. - VirtualLinkFailureCount. - MissingFIPCount. - SymbolErrorCount. - ErroredBlockCount. - FCSErrorCount.	This data structure takes effect only when the PortPhyType column is 128.
FCoELinkFailureCount	Number of link failures.	N/A	Unsigned integer.	N/A
VirtualLinkFailureCount	Number of Virtual Link failures.	N/A	Unsigned integer.	N/A
MissingFIPCount	Number of missing FIP keepalives or discovery advertisements.	N/A	Unsigned integer.	N/A
SymbolErrorCount	Number of symbol errors during carrier.	N/A	Unsigned integer.	N/A
ErroredBlockCount	Cumulative count of the events counted by the eight-bit errored blocks counter.	N/A	Unsigned integer.	N/A
FCSErrorCount	Number of frame check sequence errors.	N/A	Unsigned integer.	N/A
FCLinkErrorStatusBlock	Link error status block format for FC.	Data structure	Members include: - FCLinkFailureCount. - LossOfSyncCount. - LossOfSignalCount. - ProtocolError. - InvalidWord. - InvalidCRCCCount.	This data structure takes effect only when the PortPhyType column is 64.
FCLinkFailureCount	Number of link failures.	N/A	Unsigned integer.	N/A
LossOfSyncCount	Number of loss-of-synchronization errors.	N/A	Unsigned integer.	N/A
LossOfSignalCount	Number of loss-of-signal errors.	N/A	Unsigned integer.	N/A
ProtocolError	Number of primitive sequence protocol errors.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InvalidWord	Number of invalid transmission words.	N/A	Unsigned integer.	N/A
InvalidCRCCount	Number of invalid CRC errors.	N/A	Unsigned integer.	N/A
SFPDiagnosticsParameters	SFP diagnostic parameters descriptor.	Data structure	Members include: • SFPNotValid. • SFPTemperature. • SFPTempState. • SFPTempHAlarm. • SFPTempLAlarm. • SFPTempHWarn. • SFPTempLWarn. • SFPVoltage. • SFPVoltageState. • SFPVoltageHAlarm. • SFPVoltageLAlarm. • SFPVoltageHWarn. • SFPVoltageLWarn. • TxBias. • TxBiasState. • TxBiasHAlarm. • TxBiasLAlarm. • TxBiasHWarn. • TxBiasLWarn. • TxPower. • TxPowerState. • TxPowerHAlarm. • TxPowerLAlarm. • TxPowerHWarn. • TxPowerLWarn. • RxPower. • RxPowerState. • RxPowerHAlarm. • RxPowerLAlarm. • RxPowerHWarn. • RxPowerLWarn. • SFPPortTxType. • SFPOpticalPort. • SFPConnectorType. • SFPFECAActive.	Data structure of SFPDiagnosticsParameters and data structure of QSFPDiagnosticsParameters are mutual exclusive and only one of them can be set in a single message.

Column name	Column description	Column type	Data type and restrictions	Remarks
SFPNotValid	SFP diagnostic parameters not valid.	N/A	Enumeration: 0—Valid. 1—Invalid.	If the value is 1, the following columns are not valid: - SFPTemperature. - SFPTempState. - SFPTempHAlarm. - SFPTempLAlarm. - SFPTempHWarn. - SFPTempLWarn. - SFPVoltage. - SFPVoltageState. - SFPVoltageHAlarm. - SFPVoltageLAlarm. - SFPVoltageHWarn. - SFPVoltageLWarn. - TxBias. - TxBiasState. - TxBiasHAlarm. - TxBiasLAlarm. - TxBiasHWarn. - TxBiasLWarn. - TxPower. - TxPowerState. - TxPowerHAlarm. - TxPowerLAlarm. - TxPowerHWarn. - TxPowerLWarn. - RxPower. - RxPowerState. - RxPowerHAlarm. - RxPowerLAlarm. - RxPowerHWarn. - RxPowerLWarn.
SFPTemperature	Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempState	Running state of temperature.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SFPTempHAlarm	High alarm of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempLAlarm	Low alarm of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempHWarn	High warning of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPTempLWarn	Low warning of temperature.	N/A	Short. Unit is 1/256 °C.	N/A
SFPVoltage	Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageState	Running state of Voltage.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
SFPVoltageHAlarm	High alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageLAlarm	Low alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageHWarn	High warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
SFPVoltageLWarn	Low warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
TxBias	Tx laser bias current.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasState	Running state of TxBias.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TxBiasHAlarm	High alarm of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasLAlarm	Low alarm of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasHWarn	High warning of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxBiasLWarn	Low warning of TxBias.	N/A	Unsigned short. Unit is 2uA.	N/A
TxPower	Tx output power.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerState	Running state of TxPower.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
TxPowerHAlarm	High alarm of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerLAlarm	Low alarm of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerHWarn	High warning of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
TxPowerLWarn	Low warning of TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPower	Received optical TxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerState	Running state of RxPower.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RxPowerHAlarm	High alarm of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerLAlarm	Low alarm of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerHWarning	High warning of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
RxPowerLWarning	Low warning of RxPower.	N/A	Unsigned short. Unit is 0.1uW.	N/A
SFPPortTxType	Port tx type.	N/A	Enumeration: 0—Other or unknown. 1—Short Wave Laser. 2—Long Wave Laser LC 1310nm. 3—Long Wave Laser LL 1550nm.	N/A
SFPOpticalPort	Optical port flag.	N/A	Enumeration: 0—No. 1—Yes.	If the value is 1, the FC_Port is an optical port. If the value is 0, the FC_Port is not an optical port.
SFPConnectorType	Connector type.	N/A	Enumeration: 0—Other or unknown. 64—SFP+. - Other—Reserved.	N/A
SFPFECActive	State of FEC active	N/A	Enumeration: 0—16G FEC status is inactive or unknown. 1—16G FEC is active.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QSFPDiagnosticsParameters	QSFP diagnostic parameters descriptor.	Data structure	Members include: • QSFPNotValid. • QSFPTemperature. • QSFPTempState. • QSFPTempHAlarm. • QSFPTempLAlarm. • QSFPTempHWarn. • QSFPTempLWarn. • QSFPVoltage. • QSFPVoltageState. • QSFPVoltageHAlarm. • QSFPVoltageLAlarm. • QSFPVoltageHWarn. • QSFPVoltageLWarn. • LaneIdentifierFlag. • LaneIdentifier. • QSFPTxBiasHAlarm. • QSFPTxBiasLAlarm. • QSFPTxBiasHWarn. • QSFPTxBiasLWarn. • Lane0TxBias. • Lane0TxBiasState. • Lane1TxBias. • Lane1TxBiasState. • Lane2TxBias. • Lane2TxBiasState. • Lane3TxBias. • Lane3TxBiasState. • QSFPTxPowerHAlarm. • QSFPTxPowerLAlarm. • QSFPTxPowerHWarn. • QSFPTxPowerLWarn. • Lane0TxPower. • Lane0TxPowerState. • Lane1TxPower. • Lane1TxPowerState. • Lane2TxPower. • Lane2TxPowerState. • Lane3TxPower. • Lane3TxPowerState. • QSFPRxPowerHAlarm. • QSFPRxPowerLAlarm. • QSFPRxPowerHWarn. • QSFPRxPowerLWarn. • Lane0RxPower. • Lane0RxPowerState. • Lane1RxPower. • Lane1RxPowerState. • Lane2RxPower. • Lane2RxPowerState. • Lane3RxPower. • Lane3RxPowerState. • QSFPPortTxType. • QSFPOpticalPort. • QSFPCConnectorType.	Data structure of SFPDiagnosticsParameters and data structure of QSFPDiagnosticsParameters are mutual exclusive and only one of them can be set in a single message.

Column name	Column description	Column type	Data type and restrictions	Remarks
QSFPNotValid	Whether QSFP diagnostic parameters are valid.	N/A	Enumeration: 0—Valid. 1—Invalid.	If the value is 1, the following columns are invalid: • QSFPTemperature. • QSFPTempState. • QSFPTempHAlarm. • QSFPTempLAlarm. • QSFPTempHWarn. • QSFPTempLWarn. • QSFPVoltage. • QSFPVoltageState. • QSFPVoltageHAlarm. • QSFPVoltageLAlarm. • QSFPVoltageHWarn. • QSFPVoltageLWarn. • LaneIdentifierFlag. • LaneIdentifier. • QSFPTxBiasHAlarm. • QSFPTxBiasLAlarm. • QSFPTxBiasHWarn. • QSFPTxBiasLWarn. • Lane0TxBias. • Lane0TxBiasState. • Lane1TxBias. • Lane1TxBiasState. • Lane2TxBias. • Lane2TxBiasState. • Lane3TxBias. • Lane3TxBiasState. • QSFPTxPowerHAlarm. • QSFPTxPowerLAlarm. • QSFPTxPowerHWarn. • QSFPTxPowerLWarn. • Lane0TxPower. • Lane0TxPowerState. • Lane1TxPower. • Lane1TxPowerState.

Column name	Column description	Column type	Data type and restrictions	Remarks
QSFPTemperature	Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempState	Running state of Temperature.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPTempHAlarm	High alarm of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempLAlarm	Low alarm of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempHWarn	High warning of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPTempLWarn	Low warning of Temperature.	N/A	Short. Unit is 1/256 °C.	N/A
QSFPVoltage	Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltageState	Running state of Voltage.	N/A	Each bit represents a type. As follows: • 0—Normal. • 1—Transgress the low warning level. • 2—Transgress the high warning level. • 4—Transgress the low alarm level. • 8—Transgress the high alarm level. • Other—Unknown.	N/A
QSFPVoltageHAlarm	High alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltageLAlarm	Low alarm of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltageHWarn	High warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A
QSFPVoltageLWarn	Low warning of Voltage.	N/A	Unsigned short. Unit is 100uV.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LaneIdentifier Flag	Lane identifier validity flag.	N/A	Enumeration: 0—Invalid. 1—Valid.	If the value is 0, the LaneIdentifier column is not meaningful. If the value is 1, the single lane is indicated by the LaneIdentifier column.
LaneIdentifier	Lane identifier.	N/A	Enumeration: 0—Lane 0. 1—Lane 1. 2—Lane 2. 3—Lane 3.	This column takes effect only when the LaneIdentifierFlag column is 1, and the value decide which lane is valide about TxBias, TxBiasState, TxPower, TxPowerState,RxPower and RxPowerState.
QSFPTxBias HAlarm	High alarm of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBias LAlarm	Low alarm of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBias HWarn	High warning of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
QSFPTxBias LWarn	Low warning of TxBias of a lane.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane0TxBias	Tx laser bias current of lane 0.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane0TxBias State	Running state of TxBias of lane 0.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane1TxBias	Tx laser bias current of lane 1.	N/A	Unsigned short. Unit is 2uA.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane1TxBias State	Running state of TxBias of lane 1.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane2TxBias	Tx laser bias current of lane 2.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane2TxBias State	Running state of TxBias of lane 2.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane3TxBias	Tx laser bias current of lane 3.	N/A	Unsigned short. Unit is 2uA.	N/A
Lane3TxBias State	Running state of TxBias of lane 3.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
QSFP TxPowerHAlarm	High alarm of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP TxPowerLAlarm	Low alarm of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP TxPowerHWarn	High warning of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP TxPowerLWarn	Low warning of TxPow of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane0TxPower	Tx output power of lane 0.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0TxPowerState	Running state of TxPow of lane 0.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane1TxPower	Tx output power of lane 1.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane1TxPowerState	Running state of TxPow of lane 1.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane2TxPower	Tx output power of lane 2.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane2TxPowerState	Running state of TxPow of lane 2.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane3TxPower	Tx output power of lane 3.	N/A	Unsigned short. Unit is 0.1uW.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane3TxPowerState	Running state of TxPow of lane 3.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
QSFPRxPowerHAlarm	High alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerLAlarm	Low alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerHWarn	High warning of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFPRxPowerLWarn	Low warning of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0RxPower	Received optical power of lane 0.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane0RxPowerState	Running state of RxPower of lane 0.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane1RxPower	Received optical power of lane 1.	N/A	Unsigned short. Unit is 0.1uW.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Lane1RxPowerState	Running state of RxPower of lane 1.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane2RxPower	Received optical power of lane 2.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane2RxPowerState	Running state of RxPower of lane 2.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
Lane3RxPower	Received optical power of lane 3.	N/A	Unsigned short. Unit is 0.1uW.	N/A
Lane3RxPowerState	Running state of RxPower of lane 3.	N/A	Each bit represents a type. As follows: 0—Normal. 1—Transgress the low warning level. 2—Transgress the high warning level. 4—Transgress the low alarm level. 8—Transgress the high alarm level. - Other—Unknown.	N/A
QSFPPortTxType	Port tx type.	N/A	Enumeration: 0—Other or unknown. 1—Short Wave Laser. 2—Long Wave Laser LC.	N/A
QSFPOpticalPort	Optical port flag.	N/A	Enumeration: 0—No. 1—Yes.	If the value is 1, the FC_Port is an optical port. If the value is 0, the FC_Port is not an optical port.

Column name	Column description	Column type	Data type and restrictions	Remarks
QSFPConnectorType	Connector type.	N/A	Enumeration: 0—Other or unknown. 64—QSFP. - Other—Reserved.	N/A
QSFPFECActive	State of FEC active.	N/A	Enumeration: 0—16G FEC status is inactive or unknown. 1—16G FEC is active.	N/A
FECStatusDescriptor	FEC status descriptor.	Data structure	Members include: - CorrectedBlocks. - UncorrectableBlocks.	N/A
CorrectedBlocks	Number of FEC encoding blocks reported as corrected by hardware.	N/A	Unsigned integer.	N/A
UncorrectableBlocks	Number of FEC encoding blocks reported as uncorrectable by hardware.	N/A	Unsigned integer.	N/A
BufferCredit	Buffer Credit descriptor.	Data structure	Members include: - BBCredit. - AttachedBBCredit. - RoundTripTime.	N/A
BBCredit	FC_Port buffer-to-buffer credit.	N/A	Unsigned integer.	N/A
AttachedBBCredit	Attached FC_Port buffer-to-buffer credit.	N/A	Unsigned integer.	N/A
RoundTripTime	Nominal FC_Port RTT.	N/A	Unsigned integer.	A value of zero indicates the RTT is unknown and a non-zero value indicates the RTT of the link expressed in nanoseconds.
OpticalProductData	Optical Element Data Descriptor.	Data structure	Members include: - VendorName. - Partnumber. - Serialnumber. - Revision. - Date.	N/A
VendorName	Vendor name.	N/A	String. Length: 1 to 16 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Partnumber	Vendor part number.	N/A	String. Length: 1 to 16 characters.	N/A
Serialnumber	Vendor serial number.	N/A	String. Length: 1 to 16 characters.	N/A
Revision	Vendor revision.	N/A	String. Length: 1 to 2 characters.	N/A
Date	Vendor's manufacturing date code.	N/A	String. Length: 1 to 8 characters.	N/A

FDMI/RDPInterval

This table contains the interval for sending RDP request packets.

XML structure

```

<FDMI>
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Table description

Item	Description
Feature name	FDMI
Table name	RDPInterval
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Interval for sending RDP request packet.	N/A	Unsigned integer. Value range: 5 to 1440.	N/A

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FFILTER

FFILTER/Policy

This table contains file filter policie information.

XML structure

```
<FFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the file filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the file filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PolicyInProfile

This table contains file filter policies applied to the profile.

XML structure

```
<FFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

FFILTER/RuleInPolicy

This table contains information about rules in a file filter policy.

XML structure

```
<FFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <FGroupName></FGroupName>
      <Application></Application>
      <Direction></Direction>
```

```

    <Action></Action>
    <Logging></Logging>
  </Rule>
</RuleInPolicy>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupName	Name of the file type group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: 1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true - false	N/A

FFILTER/FGroup

This table contains file filter file type group information.

XML structure

```
<FFILTER>
  <FGroups>
    <FGroup>
      <FGroupName></FGroupName>
      <FGroupDescription></FGroupDescription>
    </FGroup>
  </FGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FGroups
Table type	Multi-instance table
Row name	FGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupDescription	Description of the file type group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PatternInFGroup

This table contains information about pattern in a file filter file type group.

XML structure

```
<FFILTER>
  <PatternInFGroups>
    <PatternInFGroup>
      <FGroupName></FGroupName>
```

```

        <PatternName></PatternName>
        <PatternValue></PatternValue>
    </PatternInFGroup>
</PatternInFGroups>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	PatternInFGroups
Table type	Multi-instance table
Row name	PatternInFGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternValue	Value of the pattern	N/A	String. Length: 1 to 8 characters.	N/A

FFILTER/FalseExtensionAction

This table contains information about the default action when the extension name of file is false.

XML structure

```

<FFILTER>
  <FalseExtensionAction>
    <Action></Action>
  </FalseExtensionAction>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER

Table name	FalseExtensionAction
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Value of the action	N/A	Enumeration: 0—permit 1—drop	Default is 0.

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XML structure	4
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XML structure	5
Table description	5
Columns	6

FFILTER

FFILTER/Policy

This table contains file filter policies information.

XML structure

```
<FFILTER>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
    </Policy>
  </Policies>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the file filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the file filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PolicyInProfile

This table contains file filter policies applied to the profile.

XML structure

```
<FFILTER>
  <PolicyInProfile>
    <Profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Profile>
  </PolicyInProfile>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	PolicyInProfile
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

FFILTER/RuleInPolicy

This table contains information about rules in a file filter policy.

XML structure

```
<FFILTER>
  <RuleInPolicy>
    <Rule>
      <PolicyName></PolicyName>
      <RuleName></RuleName>
      <FGroupName></FGroupName>
      <Application></Application>
      <Direction></Direction>
      <Action></Action>
    </Rule>
  </RuleInPolicy>
</FFILTER>
```



```

    <Logging></Logging>
  </Rule>
</RuleInPolicy>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	RuleInPolicy
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupName	Name of the file type group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the rule	N/A	Enumeration: 1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	Examples: 3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true - false	N/A

FFILTER/FGroup

This table contains file filter file type group information.

XML structure

```
<FFILTER>
  <FGroups>
    <FGroup>
      <FGroupName></FGroupName>
      <FGroupDescription></FGroupDescription>
    </FGroup>
  </FGroups>
</FFILTER>
```

Table description

Item	Description
Feature name	FFILTER
Table name	FGroups
Table type	Multi-instance table
Row name	FGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupDescription	Description of the file type group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

FFILTER/PatternInFGroup

This table contains the information of pattern in a file filter file type group.

XML structure

```
<FFILTER>
  <PatternInFGroups>
    <PatternInFGroup>
      <FGroupName></FGroupName>
      <PatternName></PatternName>
    </PatternInFGroup>
  </PatternInFGroups>
</FFILTER>
```

```

        <PatternValue></PatternValue>
    </PatternInFGroup>
</PatternInFGroups>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	PatternInFGroups
Table type	Multi-instance table
Row name	PatternInFGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternValue	Value of the pattern	N/A	String. Length: 1 to 8 characters.	N/A

FFILTER/FalseExtensionAction

This table contains information about the default action when the extension name of file is false.

XML structure

```

<FFILTER>
  <FalseExtensionAction>
    <Action></Action>
  </FalseExtensionAction>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	FalseExtensionAction
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Value of the action	N/A	Enumeration: 0—permit 1—drop	Default is 0.

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Resource Summary for DFILTER

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policy	/api/v1/FFILTER/Policy	Y	Y	Y	Y
PolicyInProfile	/api/v1/FFILTER/PolicyInProfile	Y	Y	Y	Y
RuleInPolicy	/api/v1/FFILTER/RuleInPolicy	Y	Y	Y	Y
FGroup	/api/v1/FFILTER/FGroup	Y	Y	Y	Y
PatternInFGroup	/api/v1/FFILTER/PatternInFGroup	Y	Y	Y	Y
FalseExtensionAction	/api/v1/FFILTER/FalseExtensionAction	Y	N	Y	N

FFILTER

Policy

This table contains file filter policie information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the file filter policy	Index	String, case-insensitive Length: 1 to 31 characters.	N/A
PolicyDescription	Description of the file filter policy	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/Policy?index=PolicyName%3D1

Json Response

200 OK

```
{
  "Policies":
  [{
    "PolicyName": "1",
```

```
    "PolicyDescription": "PolicyDescription1"
  }
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/FFILTER/Policy

```
{
  "Policies":
  [{
    "PolicyName": "2",
    "PolicyDescription": "PolicyDescription2"
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/Policy?index=PolicyName%3D3

Json Response

```
{
  "Policies":
  [{
    "PolicyName": "3",
    "PolicyDescription": "PolicyDescription3"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/FFILTER/Policy?index=PolicyName%3D4

Json Response

PolicyInProfile

This table contains file filter policies applied to the profile.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 100 characters.	N/A
PolicyName	Name of the policy	NA	String, case-insensitive Length: 1 to 31 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/PolicyInProfile?index=ProfileName%3D1

Json Response

200 OK

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "1",
    "PolicyName": "PolicyName1"
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/FFILTER/PolicyInProfile

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "2",
    "PolicyName": "PolicyName2"
  }]
}
```



```
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/PolicyInProfile?index=ProfileName%3D3

Json Response

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "3",
    "PolicyName": "PolicyName3"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/FFILTER/PolicyInProfile?index=ProfileName%3D4

Json Response

204 No Content

RuleInPolicy

This table contains information about rules in a file filter policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the policy	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RuleName	Name of the rule	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupName	Name of the file type group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
Application	Application of the	N/A	Enumeration:	Examples:

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule		1—HTTP 2—FTP 4—SMTP 8—IMAP 16—POP3 32—NFS 64—SMB 128—RTMP	3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: 0—upload 1—download 2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: 0—drop 1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: - true - false	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/RuleInPolicy?index=PolicyName%3Dp1%3BRuleName%3Dr1

Json Response

200 OK

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p1",
    "RuleName": "r1",
    "FGroupName": "FGroupName1",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  ]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/FFILTER/RuleInPolicy

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p2",
    "RuleName": "r2",
    "FGroupName": "FgroupName2",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/RuleInPolicy?index=PolicyName%3Dp3%3BRuleName%3Dr3

```
{
  "RuleInPolicy":
  [{
    "PolicyName": "p3",
    "RuleName": "r3",
    "FGroupName": "FgroupName3",
    "Application": 1,
    "Direction": 1,
    "Action": 1,
    "Logging": false
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/FFILTER/RuleInPolicy?index=PolicyName%3Dp4%3BRuleName%3Dr4

Json Response

204 No Content

FGroup

This table contains file filter file type group information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
FGroupDescription	Description of the file type group	N/A	String, case-sensitive Length: 1 to 255 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/FGroup?index=FGroupName%3D1

Json Response

200 OK

```
{
  "FGroups":
  [{
    "FGroupName":"1",
    "FGroupDescription":"FgroupDescription1"
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/FFILTER/Fgroup

```
{
  "FGroups":
  [{
    "FGroupName":"2",
```

```

        "FGroupDescription": "FgroupDescription2"
    }
}

```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/FGroup?index=FGroupName%3D3

Json Response

```

{
  "FGroups":
  [
    {
      "FGroupName": "3",
      "FGroupDescription": "FgroupDescription3"
    }
  ]
}

```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/FFILTER/FGroup?index=FGroupName%3D4

Json Response

204 No Content

PatternInFGroup

This table contains information about pattern in a file filter file type group.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
FGroupName	Name of the file type group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PatternName	Name of the pattern	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PatternValue	Value of the pattern	N/A	String. Length: 1 to 8 characters.	N/A

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/PatternInFGroup?index=FGroupName%3Df1%3BPatternName%3Dp1

Json Response

200 OK

```
{
  "PatternInFGroups":
  [{
    "FGroupName": "f1",
    "PatternName": "p1",
    "PatternValue": "PatternValue1"
  }]
}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/FFILTER/PatternInFGroup

```
{
  "PatternInFGroups":
  [{
    "FGroupName": "f2",
    "PatternName": "p2",
    "PatternValue": "PatternValue2"
  }]
}
```

Json Response

201 Created

Example 3: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/PatternInFGroup?index=FGroupName%3Df3%3BPatternName%3Dp3

```
{
  "PatternInFGroups":
  [{
    "FGroupName":"f3",
    "PatternName":"p3",
    "PatternValue":"PatternValue3"
  }]
}
```

Json Response

204 No Content

Example 4: Delete the assigned instance from the resource table.

Json Request

DELETE /api/v1/ FFILTER/PatternInFGroup?index=FGroupName%3Df4%3BPatternName%3Dp4

Json Response

204 No Content

FalseExtensionAction

This table contains information about the default action when the externsion name of file is false.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Value of the action	N/A	Enumeration: 0—permit 1—drop	Default is 0

Example

Example 1: Get data from the resource table.

Json Request

GET /api/v1/FFILTER/FalseExtensionAction

Json Response

200 OK

```
{
  "FalseExtensionAction":
  [{
```

```
    "Action":1
  }
}
```

Example 2: Change the data for the assigned instance.

Json Request

PUT /api/v1/FFILTER/FalseExtensionAction

Json Response

```
{
  "FalseExtensionAction":
  [{
    "Action":0
  }]
}
```

Json Response

204 No Content

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XML structure	5
Table description	5
Columns	6

FileSystem

FileSystem/Files

This table describes the actions that can be performed to the file.

XML structure

```
<FileSystem>
  <Files>
    <File>
      <SrcName></SrcName>
      <DstName></DstName>
      <VRF></VRF>
      <Operations>
        <Delete></Delete>
        <UnReservedDelete></UnReservedDelete>
        <Copy></Copy>
        <Move></Move>
        <Rename></Rename>
        <Gzip></Gzip>
        <Gunzip></Gunzip>
        <sha256sum></sha256sum>
        <md5sum></md5sum>
        <Mkdir></Mkdir>
        <Rmdir></Rmdir>
      </Operations>
    </File>
  </Files>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	Delete, UnReservedDelete, Copy, Move, Rename, More, Gzip, Gunzip, Sha256sum, Md5sum, Mkdir and Rmdir are mutually exclusive.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcName	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	Index	String. Length: 1 to 4096 characters.	
DstName	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	N/A	String. Length: 1 to 4096 characters.	
VRF	The VRF name.	N/A	String. Length: 1 to 31 Characters.	If VRF is not specified, it is represented that host is on the public network.
Delete	Delete a file.	N/A	This column must be empty.	
UnReservedDelete	Delete a file permanently.	N/A	This column must be empty.	
Copy	Copy a file.	N/A	This column must be empty. DstName column must not be empty.	
Move	Move a file.	N/A	This column must be empty. DstName column must not be empty.	
Rename	Rename a file or directory.	N/A	This column must be empty. DstName column must not be empty.	
Gzip	Compress file.	N/A	This column must be empty. DstName column must be empty.	
Gunzip	Decompress file.	N/A	This column must be empty. DstName column must be empty.	
Sha256sum	Compute the hash digest of a file using the SHA256 algorithm.	N/A	This column must be empty. DstName column must be empty.	
Md5sum	Compute the hash digest of a file using the MD5 algorithm.		This column must be empty. DstName column must be empty.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Compute the hash digest of a file using the MD5 algorithm.	N/A	This column must be empty. DstName column must be empty.	
MkDir	Create a new directory.	N/A	This column must be empty. DstName column must be empty.	
Rmdir	Remove an empty directory.	N/A	This column must be empty. DstName column must be empty.	

RecycleBin/RecycleBinFile

This table describes the actions that can be performed to the file under recycle-bin.

XML structure

```

<FileSystem>
  <RecycleBin>
    <RecycleBinFile>
      <Name></Name>
      <Operations>
        <Undelete></Undelete>
        <Clear></Clear>
      </Operations>
    </RecycleBinFile>
  </RecycleBin>
</FileSystem>

```

Table description

Item	Description
Feature name	FileSystem
Table name	RecycleBin
Table type	Multi-instance table
Row name	RecycleBinFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	Index	String. Length: 1 to 4096 characters.
Undelete	Recover a deleted file.	N/A	This column must be empty.
Clear	Delete a deleted file permanently.	N/A	This column must be empty.

Media/Medium

This table describes the actions that can be performed to the media.

XML structure

```
<FileSystem>
  <Media>
    <Medium>
      <Name></Name>
      <Fdisk></Fdisk>
      <Part1Size></Part1Size>
      <Part2Size></Part2Size>
      <Part3Size></Part3Size>
      <Part4Size></Part4Size>
    </Medium>
  </Media>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Media
Table type	Multi-instance table
Row name	Medium
Restrictions	You should assign Part1Size, Part2Size, Part3Size and Part4Size in order. It is not permitted to assign Part2Size without Part1Size.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Storage medium name. For examples: flash: chassis3#slot1#cfa:	Index	String. Length: 1 to 255 characters.
Fdisk	Partition a storage medium.	N/A	This column must be empty.
Part1Size	The size of partition1. Unit: Mbyte.	Unsigned integer.	None
Part2Size	The size of partition2. Unit: Mbyte.	Unsigned integer.	None
Part3Size	The size of partition3. Unit: Mbyte.	Unsigned integer.	None
Part4Size	The size of partition4. Unit: Mbyte.	Unsigned integer.	None

Partitions/Partition

XML structure

```

<FileSystem>
  <Partitions>
    <Partition>
      <Name></Name>
      <Operations>
        <Format></Format>
        <FixDisk></FixDisk>
        <Umount></Umount>
        <Mount></Mount>
      </Operations>
    </Partition>
  </Partitions>
</FileSystem>

```

Table description

Item	Description
Feature name	FileSystem

Item	Description
Table name	Partitions
Table type	Multi-instance table
Row name	Partition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Storage medium partition name. For examples: flash: chassis3#slot1#cfa0:	Index	String. Length: 1 to 255 characters.
Format	Format a storage medium partition.	N/A	This column must be empty.
FixDisk	Check and repair a storage medium partition.	N/A	This column must be empty.
Umount	Unmount a storage medium partition.	N/A	This column must be empty.
Mount	Mount a storage medium partition.	N/A	This column must be empty.

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Table description	3
Columns	3
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XML structure	4
Table description	4
Columns	5

FileSystem

FileSystem/Files

This table contains the file information.

XML structure

```
<FileSystem>
  <Files>
    <File>
      <Name></Name>
      <Size></Size>
      <Time></Time>
      <IsDirectory></IsDirectory>
    </File>
  </Files>
</FileSystem>
```

Table description

Item	Description
Feature name	FileSystem
Table name	Files
Table type	Multi-instance table
Row name	File
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Full path and file name. Examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	Index	NameString. Length: 1 to 4096 characters.	N/A
Size	The size of the file Unit: byte.	N/A	Unsigned integer. Value range: 0 to 2 ⁶⁴ - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remark
Time	The latest modified time of the file.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
IsDirectory	Whether the path is a directory.	N/A	Boolean: True false	N/A

FileSystem/RECYCLEBIN

This Table contains recycle bin files information.

XML structure

```

<FileSystem>
  <RecycleBin>
    <RecycleBinFile>
      <Medium></Medium>
      <TrashFiles>
        <FileName></FileName>
      </TrashFiles>
    </RecycleBinFile>
  </RecycleBin>
</FileSystem>

```

Table description

Item	Description
Feature name	FileSystem
Table name	RecycleBin
Table type	Multi-instance table
Row name	RecycleBinFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Medium	Partition name. Examples: chassis2#slot1#flash: chassis1#slot2#cfa0:	index	NameString. Length: 1 to 255 characters.	N/A
TrashFiles	Files in trash	Group	Members: FileName	N/A
FileName	Trash file name with path. Examples: logfile/logfile.log main.cfg	Column	NameString. Length: 1 to 4096 characters.	N/A

FileSystem/Media

This Table contains medium information.

XML structure

```

<FileSystem>
  <Media>
    <Medium>
      <Name></Name>
      <PartitionCapability></PartitionCapability>
    </Medium>
  </Media>
</FileSystem>

```

Table description

Item	Description
Feature name	FileSystem
Table name	Media
Table type	Multi-instance table
Row name	Medium
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Storage medium name. Examples: chassis2#slot1#flash: chassis1#slot2#cfa:	index	NameString. Length: 1 to 255 characters.	N/A
Medium				
PartitionCapability	Whether the medium can be partitioned.	N/A	Boolean: True false	N/A

FileSystem/Partitions

This Table contains partition information.

XML structure

```

<FileSystem>
  <Partitions>
    <Partition>
      <Name></Name>
      <Total></Total>
      <Used></Used>
      <Free></Free>
      <Bootable></Bootable>
      <MountState></MountState>
    </Partition>
  </Partitions>
</FileSystem>

```

Table description

Item	Description
Feature name	FileSystem
Table name	Partitions
Table type	Multi-instance table
Row name	Partition
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Partition name. Examples: chassis2#slot1#flash: chassis1#slot2#cfa0:	index	NameString. Length: 1 to 255 characters.	N/A
Total	The total size of the partition. Unit: byte	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Used	Used size of the partition. Unit: byte	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Free	Available size of the partition. Unit: byte	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Bootable	Whether the partition is the startup partition.	N/A	Boolean: True false	N/A
MountState	Whether the partition is mounted.	N/A	Boolean: True false	If the value is false, only Name column and MountState column can be read.

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FTP

FTP/Server

This table contains information about global FTP Server functions.

XML structure

```
<FTP>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <Timeout></Timeout>
    <SslServerPolicy></SslServerPolicy>
  </Server>
</FTP>
```

Table description

Item	Description
Feature name	FTP
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global FTP Server functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Global FTP Server feature	N/A	EnableState: - enable Enable FTP Server - disable Disable FTP Server(default)
Ipv4DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:0

Column name	Column description	Column type	Data type and restrictions
Ipv6DSCP	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:0.
Ipv4ACLNum	Specify an IPv4 ACL used to control the FTP clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the FTP clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
Timeout	Specify FTP timeout value	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 30.
SslServerPolicy	Specify an SSL server policy for the FTP server	N/A	String. Length: 1 to 31 characters.

Contents

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Columns	1
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XML structure	1
Table description	2
Columns	2

FTP

FTP/Capabilities

This table contains the capabilities information of the FTP.

XML structure

```
<FTP>
  <Capabilities>
    <FtpServerSupport></FtpServerSupport>
  </Capabilities>
</FTP>
```

Table description

Item	Description
Feature name	FTP
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FtpServerSupport	Whether The FTP Server capability is supported.	N/A	Boolean: - true - false

FTP/Server

This table contains global FTP Server information.

XML structure

```
<FTP>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
  </Server>
</FTP>
```

```

    <Ipv6ACLNum></Ipv6ACLNum>
    <Timeout></Timeout>
    <SslServerPolicy></SslServerPolicy>
  </Server>
</FTP>

```

Table description

Item	Description
Feature name	FTP
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global FTP Server functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Global FTP Server feature	N/A	EnableState: - enable Enable FTP Server - disable Disable FTP Server(default)
Ipv4DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:0
Ipv6DSCP	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:0.
Ipv4ACLNum	Specify an IPv4 ACL used to control the FTP clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the FTP clients' access	N/A	Unsigned integer. Value range: 2000 to 3999.
Timeout	Specify FTP timeout value	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 30.
SslServerPolicy	Specify an SSL server policy for the FTP server	N/A	String. Length: 1 to 31 characters.

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Fundamentals

Fundamentals/CurrentSessionOpt

This table describes the actions that can be performed to current session.

XML structure

```
<Fundamentals>
  <CurrentSessionOpt>
    <DisableEditConfigWhenRollback/>
  </CurrentSessionOpt>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	CurrentSessionOpt
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DisableEditConfigWhenRollback	Reject edit-config request when system is performing rollback	N/A	Boolean: true false

Contents

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XML structure	1
Table description	1
Columns	1

Fundamentals

Fundamentals/WebUI

This table contains Web service information.

XML structure

```
<Fundamentals>
  <WebUI>
    <SessionAgingTime></SessionAgingTime>
    <HTTP>
      <State></State>
      <Port></Port>
      <Ac lNumber></Ac lNumber>
      <Ac lName></Ac lName>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <Ac lNumber></Ac lNumber>
      <Ac lName></Ac lName>
    </HTTPS>
  </WebUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebUI
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionAgingTime	Web user connection timeout (minutes)	N/A	Unsigned integer. Value range: 1 to 999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTP	HTTP configuration information.	Data structure	Members include: - State - Port - AclNumber	N/A
State	HTTP status.	N/A	Enumeration: - enable - disable	N/A
Port	HTTP port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the AclName column overwrites each other.
AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the AclNumber column overwrites each other.
HTTPS	HTTPS configuration information.	Data structure	Members include: - State - Port - AclNumber	N/A
State	HTTPS status.	N/A	Enumeration: - enable - disable	N/A
Port	HTTPS port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AclNumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the AclName column overwrites each other.
AclName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter	Only basic ACLs are supported. This column and the AclNumber column overwrites each other.

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XML structure	3
Table description	3
Columns	3
Fundamentals/WebMenuPath	4
XML structure	4
Table description	4
Columns	5

Fundamentals

Fundamentals/WebUI

This table contains Web service information.

XML structure

```
<Fundamentals>
  <WebUI>
    <SessionAgingTime></SessionAgingTime>
    <HTTP>
      <State></State>
      <Port></Port>
      <Ac lNumber></Ac lNumber>
      <Ac lName></Ac lName>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <Ac lNumber></Ac lNumber>
      <Ac lName></Ac lName>
    </HTTPS>
  </WebUI>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebUI
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionAgingTime	Web user connection timeout in minutes.	N/A	Unsigned integer. Value range: 1 to 999.	N/A
HTTP	HTTP configuration information.	Data structure	Members include: - State - Port - AcINumber	N/A
State	HTTP status.	N/A	Enumeration: - enable - disable	N/A
Port	HTTP port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AcINumber	Number of the ACL for HTTP access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the AcIName column overwrites each other.
AcIName	Name of the ACL for HTTP access control.	N/A	String, case insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the AcINumber column overwrites each other.
HTTPS	HTTPS configuration information.	Data structure	Members include: - State - Port - AcINumber	N/A
State	HTTPS status.	N/A	Enumeration: - enable - disable	N/A
Port	HTTPS port number.	N/A	Unassigned integer. Value range: 1 to 65535.	N/A
AcINumber	Number of the ACL for HTTPS access control.	N/A	Unassigned integer. Value range: 2000 to 2999.	Only basic ACLs are supported. This column and the AcIName column overwrites each other.
AcIName	Name of the ACL for HTTPS access control.	N/A	String, case-insensitive. Length: 1 to 63 characters. The string must start with an English letter.	Only basic ACLs are supported. This column and the AcINumber column overwrites each other.

Fundamentals/NetconfResXPath

This table contains NETCONF XML path information.

XML structure

```
<Fundamentals>
  <NetconfResXPath>
    <XPath>
      <Path></Path>
      <Type></Type>
    </XPath>
  </NetconfResXPath>
</Fundamentals>
```

Table description

Item	Description
Feature name	Fundamentals
Table name	NetconfResXPath
Table type	Multi-instance table
Row name	XPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Path	The operational XML resource path .	Index	String. case-insensitive.

Column name	Column description	Column type	Data type and restrictions
Type	The type of the operational XML resource path .	N/A	Enumeration: 0 —The XML path of NETCONF protocol. Example: "rpc/kill-session". 1— The intermediate XML path of NETCONF protocol. Example: "rpc/". 2 —The XML path of device resources. Example: "ifmgr/interfaces/interface/if index". 3 —The intermediate XML path of device resources. Example: "ifmgr/interfaces/interface/"

Fundamentals/WebMenuPath

This table contains web menu path information.

XML structure

```

<Fundamentals>
  <WebMenuPath>
    <MenuPath>
      <Path></Path>
      <Title></Title>
      <Type></Type>
    </MenuPath>
  </WebMenuPath>
</Fundamentals>

```

Table description

Item	Description
Feature name	Fundamentals
Table name	WebMenuPath
Table type	Multi-instance table
Row name	MenuPath

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Path	Web path of menu.	Index	String. Case-insensitive.	N/A
Title	The description of WEB menu.	N/A	String. Length: 1 to 31 characters.	Depend on the language of current user.
Type	The type of WEB menu.	N/A	Enumeration: 0 – Leaf menu which is corresponding to the specific web page. 1 – Intermediate menu node which is not corresponding to the specific web page.	N/A

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GDVPNGM

ResetAllGdoiGmInfo

The table is used to clear GDOI information for all GM groups, and trigger to the GMs to re-register with the KS.

XML structure

```
<ResetAllGdoiGmInfo>
  <Reset></Reset>
</ResetAllGdoiGmInfo>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	ResetAllGdoiGmInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Clear gdoi gm information of all groups.	N/A	N/A	This column must not be empty.

ResetGdoiGmInfo

The table is used to clear GDOI information for a GDOI GM group, and to trigger the GMs to re-register with the KS.

XML structure

```
<ResetGdoiGmInfo>
  <Reset>
    <GroupName></GroupName>
  </Reset>
</ResetGdoiGmInfo>
```


Table description

Item	Description
Feature name	GDVPNGM
Table name	ResetGdoiGmInfo
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the GDOI GM group.	Index	String, Case insensitive Length: 1 to 63 characters.

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Columns	5
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XML structure	6
Table description	6
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GDVPNGM

GdoiGmGroups

This table displays GM group information.

XML structure

```
<GdoiGmGroups>
  <GdoiGmGroup>
    <GroupName></GroupName>
    <IPVersion></IPVersion>
    <Identity>
      <Type></Type>
      <Number></Number>
      <Address></Address>
    </Identity>
    <RegistrationInterface></RegistrationInterface>
    <Encryption>
      <ThreeDesCbc></ThreeDesCbc>
      <AesCbc128></AesCbc128>
      <AesCbc192></AesCbc192>
      <AesCbc256></AesCbc256>
      <DesCbc></DesCbc>
    </Encryption>
  </GdoiGmGroup>
</GdoiGmGroups>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroups
Table type	Multi-instance table
Row name	GdoiGmGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String. Length: 1 to 63 characters Case insensitive.	N/A.
IPVersion	GM group IP version.	N/A	Enumeration: 1—IPv4(Default). 2—IPv6.	N/A.
Identity	GDOI GM group ID.	Data structure	Members include: - Type - Address - Number	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: 0—invalid(Default) 1—Number Type 2—Address Type	0 means Identity is not specified. In this case neither Address nor Number is valid. 1 means Identity is Address. In this case, only Address is valid. 2 means Identity is Number. In this case only Number is valid.
Number	A number to identify the GDOI GM group.	N/A	Unsigned integer. Value range of 0 to 2147483647.	Number is ignored if Type is not 2.
Address	IPv4 address to identify the GDOI GM group	N/A	IPv4 address.	Address is ignored if Type is not 1.
RegistrationInterface	Registration interface name for a group member	N/A	String, case-insensitive. Length: 1 to 63 characters The default is empty.	N/A.
Encryption	KEK encryption algorithms	Data structure	Members include: - ThreeDesCbc - AesCbc128 - AesCbc192 - AesCbc256 - DesCbc	The encryption algorithms is from 0 to 1."1"means the encryption algorithms is enable, "0" means disable.
ThreeDesCbc	The 3DES-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc128	The AES-CBC-128 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AesCbc192	The AES-CBC-192 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc256	The AES-CBC-256 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1 The default is 1.	N/A
DecCbc	The DEC-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

GdoiGmGroupServers

This table displays key servers (KS) of a GM group.

XML structure

```
<GdoiGmGroupServers>
  <Server>
    <GroupName></GroupName>
    <Host></Host>
    <Vrf></Vrf>
  </Server>
</GdoiGmGroupServers>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	Key server IP address or hostname	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters, case-sensitive.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Vrf	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters. The default is empty.	If the server is on the public network, the length of characters is 0.

GdoiGmGroupTransformSets

This table displays transform sets of a GM group.

XML structure

```

<GdoiGmGroupTransformSets>
  <TransformSet>
    <GroupName></GroupName>
    <TransformSetList>
      <TransformSetName></TransformSetName>
    </TransformSetList>
  </TransformSet>
</GdoiGmGroupTransformSets>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupTransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
TransformSet List	List of transform set names	Data structure	Members include: TransformSetName	N/A.
TransformSet Name	IPsec transform set name	Column	String, case-insensitive. Length :1 to 63 characters.	This Column can be repeated for 0 to 6 times.

GdoiIPv4Policies

This table displays GDOI policies of a GM group.

XML structure

```

<GdoiIPv4Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv4Policies>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. • Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name of the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number	N/A
Name	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
Number	ACL number	N/A	Integer. Value range: 3000 to 3999. • Default is -1.	Only when the ACL Name is empty, does the ACL Number make sense.

GdoiIPv6Policies

This table displays GDOI IPv6 policies of a GM group.

XML structure

```

<GdoiIPv6Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv6Policies>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv6Policies
Table type	Multi-instance table
Row name	Policy

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. • Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name for the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: • Name • Number	N/A
Name	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	Only when the ACL Name is empty, does the ACL Number make sense.

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GDVPNGM

GdoiGmGroups

This table displays GM group information.

XML structure

```
<GdoiGmGroups>
  <GdoiGmGroup>
    <GroupName></GroupName>
    <IPVersion></IPVersion>
    <Identity>
      <Type></Type>
      <Number></Number>
      <Address></Address>
    </Identity>
    <RegistrationInterface></RegistrationInterface>
    <Encryption>
      <ThreeDesCbc></ThreeDesCbc>
      <AesCbc128></AesCbc128>
      <AesCbc192></AesCbc192>
      <AesCbc256></AesCbc256>
      <DesCbc></DesCbc>
    </Encryption>
  </GdoiGmGroup>
</GdoiGmGroups>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroups
Table type	Multi-instance table
Row name	GdoiGmGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, Case insensitive. Length: 1 to 63 characters	N/A.
IPVersion	GM group IP version.	N/A	Enumeration: 1—IPv4(Default) 2—IPv6	It is not suggested to change a group's IPVersion from IPv4 to IPV6 or IPV6 to IPV4, some config of the group may lost.
Identity	GDOI GM group ID.	Data structure	Members include: - Type - Address - Number	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: 0—invalid(Default) 1—Number Type 2—Address Type	0 means Identity is not specified,in this case neither Address nor Number is valid. 1 means Identity is Address,in this case, only Address is valid. 2 means Identity is Number,in this case only Number is valid.
Number	A number to identify the GDOI GM group.	N/A	Unsigned integer. Value range of 0 to 2147483647.	Number is ignored if Type is not 2.
Address	IPv4 address to identify the GDOI GM group	N/A	IPv4 address.	Address is ignored if Type is not 1.
RegistrationInterface	Registration interface name for a group member	N/A	String, Case insensitive. Length: 1 to 63 characters The default is empty.	N/A.
Encryption	KEK encryption algorithms	Data structure	Members include: - ThreeDesCbc - AesCbc128 - AesCbc192 - AesCbc256 - DesCbc	The encryption algorithms is from 0 to 1."1"means the encryption algorithms is enable, "0" means disable.
ThreeDesCbc	The 3DES-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc128	The AES-CBC-128 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AesCbc192	The AES-CBC-192 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
AesCbc256	The AES-CBC-256 encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1.	N/A
DecCbc	The DEC-CBC encryption algorithm	N/A	Unsigned integer. Value range: 0 to 1. The default is 1	N/A

GdoiGmGroupServers

This table displays key servers (KS) of a GM group.

XML structure

```
<GdoiGmGroupServers>
  <Server>
    <GroupName></GroupName>
    <Host></Host>
    <Vrf></Vrf>
  </Server>
</GdoiGmGroupServers>
```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupServers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	Key server IP address or hostname	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters, case-sensitive.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Vrf	VRF instance name	Index	String, case-sensitive. Length: 0 to 31 characters. The default is empty.	If the server is on the public network, the length of characters is 0.

GdoiGmGroupTransformSets

This table displays transform sets of a GM group.

XML structure

```

<GdoiGmGroupTransformSets>
  <TransformSet>
    <GroupName></GroupName>
    <TransformSetList>
      <TransformSetName></TransformSetName>
    </TransformSetList>
  </TransformSet>
</GdoiGmGroupTransformSets>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmGroupTransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.
TransformSet List	List of transform set names	Data structure	Members include: • TransformSetName	N/A.
TransformSet Name	IPsec transform set name	Column	String, case-insensitive. Length :1 to 63 characters.	This Column can be repeated for 0 to 6 times.

GdoiGroupMembers

This table displays GDOI group members.

XML structure

```

<GdoiGroupMembers>
  <GroupMember>
    <GroupName></GroupName>
    <IPAddress></IPAddress>
    <VRFName></VRFName>
    <RegStatus></RegStatus>
    <RegServer></RegServer>
    <ReRegTime></ReRegTime>
    <SucceedRegs></SucceedRegs>
    <AttemptedRegs></AttemptedRegs>
    <LastRekeyFrom></LastRekeyFrom>
    <LastRekeySeqNum></LastRekeySeqNum>
    <MulticastRekeysReceived></MulticastRekeysReceived>
    <UnicastRekeysReceived></UnicastRekeysReceived>
    <RekeyAckSent></RekeyAckSent>
    <AllowableRekeyCipher></AllowableRekeyCipher>
    <AllowableRekeyHash></AllowableRekeyHash>
    <AllowableTransforms>
      <AllowableTransform></AllowableTransform>
    </AllowableTransforms>
    <RekeyCumulative>
      <TotalReceived></TotalReceived>
      <AfterLatestReg></AfterLatestReg>
      <LastRekeyReceivedFor></LastRekeyReceivedFor>
      <TotalRekeyAckSent></TotalRekeyAckSent>
    </RekeyCumulative>
  </GroupMember>
</GdoiGroupMembers>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPAddress	IP address of the GM.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VRFName	Name of the VRF to which the KS belongs.	N/A	String. Length: 0 to 31 characters. The default is empty.	If the KS belongs to the public network, this field is not displayed.
RegStatus	The registration status.	N/A	Enumeration: 1—Not registered. 2—Registering. 3—Registered.	N/A
RegServer	IP address or host name of the KS with which the GM registers.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Hostname can contain letters, digits, hyphens (-), and underscores (_).
ReRegTime	Period of time after which the GM re-registers with a KS.	N/A	Unsigned integer.	Unit: second.
SucceedRegs	Number of successful registrations.	N/A	Unsigned integer.	N/A
AttemptedRegs	Number of registration attempts.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LastRekeyFrom	KS from which the GM receives the last rekey message.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Hostname: String, 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. Hostname can contain letters, digits, hyphens (-), and underscores (_).
LastRekeySeqNum	Sequence number of the last received rekey message.	N/A	Unsigned integer.	N/A
MulticastRekeysReceived	Number of multicast rekeys received.	N/A	Unsigned integer.	Valid only when the GDOI GM group is a multicast group.
UnicastRekeysReceived	Number of unicast rekeys received.	N/A	Unsigned integer.	Valid only when the GDOI GM group is a unicast group.
RekeyAckSent	Number of rekey ACK messages sent.	N/A	Unsigned integer.	This field is displayed only when the GDOI GM group is a unicast group.
AllowableRekeyCipher	Rekey encryption algorithms that the GM allows.	N/A	Each bit represents a algorithm As follows: 1—DES-CBC. 2—3DES-CBC. 4—AES-CBC-128. 8—AES-CBC-192. 16—AES-CBC-256.	In non-FIPS mode, a GM supports DES-CBC, 3DES-CBC, AES-CBC-128, AES-CBC-192, and AES-CBC-256. In FIPS mode, a GM supports AES-CBC-128, AES-CBC-192, and AES-CBC-256.
AllowableRekeyHash	Rekey hash algorithms that the GM allows.	N/A	Each bit represents a algorithm As follows: 1—MD5 2—SHA1 4—SHA2-224 8—SHA2-256 16—SHA2-384 32—SHA2-512 64—AES-XCBC	0 represents any hash algorithm.
AllowableTransforms	List of transform set names	Data structure	Members include: TransformSetName	N/A
TransformSetName	IPsec transform set name	N/A	String, case-insensitive. Length :1 to 63 characters.	This column can be repeated for 0 to 6 times.

Column name	Column description	Column type	Data type and restrictions	Remarks
RekeyCumulative	Rekey statistics.	Data structure	Members include: - TotalReceived. - AfterLatestReg. - TotalRekeyAckSent.	N/A
TotalReceived	Total number of rekeys that the GM has received.	N/A	Unsigned integer.	N/A
AfterLatestReg	Number of rekeys that the GM has received after the last successful registration.	N/A	Unsigned integer.	N/A
LastRekeyReceivedFor	Period of time for which the key has existed after the last rekey operation.	N/A	Unsigned integer.	Unit: second 0 represents N/A.
TotalRekeyAckSent	Number of rekey ACK messages sent.	N/A	Unsigned integer.	N/A

GdoiGmDownloadIPv4AclRules

This table displays ACL information that the GM downloaded from the KS.

XML structure

```

<GdoiGmDownloadIPv4AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <KeyServer></KeyServer>
    <Action></Action>
    <Protocol></Protocol>
    <Source>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
    </Source>
    <Destination>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </Destination>
  </Rule>
</GdoiGmDownloadIPv4AclRules>

```

```

    </Destination>
  </Rule>
</GdoiGmDownloadIPv4AcIRules>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmDownloadIPv4AcIRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Unsigned integer.	N/A
KeyServer	The key server IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Action	The rule action	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
Source	ACL of source address	Data structure	Members include: - SrcAddr. - SrcWildLen - SrcPort.	
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	ACL of destination address	Data structure	Members include: - DesAddr. - DesWildLen - DesPort.	
DesAddr	The destination address of packets.	N/A	IPv4 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmDownloadIPv6AclRules

This table displays ACL information that the GM downloaded from the KS.

XML structure

```

<GdoiGmDownloadIPv6AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <KeyServer></KeyServer>
    <Action></Action>
    <Protocol></Protocol>
    <Source>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
    </Source>
    <Destination>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </Destination>
  </Rule>
</GdoiGmDownloadIPv6AclRules>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmDownloadIPv6AclRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Unsigned integer.	N/A
KeyServer	The key server IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Action	The rule action	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
Source	ACL of source address	Data structure	Members include: - SrcAddr. - SrcWildLen - SrcPort.	
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A
Destination	ACL of destination address	Data structure	Members include: - DesAddr. - DesWildLen - DesPort.	

Column name	Column description	Column type	Data type and restrictions	Remarks
DesAddr	The destination address of packets.	N/A	IPv4 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmLocalIPv4AclRules

This table displays the ACL information locally configured on the GM.

XML structure

```

<GdoiGmLocalIPv4AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <ACL>
      <ACLNumber></ACLNumber>
      <AcNum></AcNum>
      <ACLRuleID></ACLRuleID>
      <ACLMode></ACLMode>
      <Action></Action>
      <Protocol></Protocol>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </ACL>
  </Rule>
</GdoiGmLocalIPv4AclRules>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmLocalIPv4AclRules

Item	Description
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Integer	
ACL	Reference an ACL for a gdoi group	Data structure	Members include: • ACLName • ACLNumber • ACLRuleID • ACLMode • Action • Protocol • SrcAddr • SrcWildLen • SrcPort • DesAddr • DesWildLen • DesPort	If the ACLRuleID is 65535, it means the ACL is an empty ACL. The ACL does not support to display object-group configuration.
ACLName	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.
ACLRuleID	ACL Rule ID	N/A	Unsigned integer. Value range: 0 to 65535.	○ 65535 means the ACL rule is empty

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLMode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host. 3—aggregation.	- per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. - per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. - aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Action	The rule action	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
SrcAddr	The source address of packets.	N/A	IPv4 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A
DesAddr	The destination address of packets.	N/A	IPv4 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiGmLocalIPv6AclRules

This table displays the ACL information locally configured on the GM.

XML structure

```

<GdoiGmLocalIPv6AclRules>
  <Rule>
    <GroupName></GroupName>
    <ID></ID>
    <ACL>
      <ACLName></ACLName>
      <ACLNumber></ACLNumber>
      <ACLRuleID></ACLRuleID>
      <ACLMode></ACLMode>
      <Action></Action>
      <Protocol></Protocol>
      <SrcAddr></SrcAddr>
      <SrcWildLen></SrcWildLen>
      <SrcPort></SrcPort>
      <DesAddr></DesAddr>
      <DesWildLen></DesWildLen>
      <DesPort></DesPort>
    </ACL>
  </Rule>
</GdoiGmLocalIPv6AclRules>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmLocalIPv6AclRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	The ID of a rule.	Index	Integer	
ACL	Reference an ACL for a gdoi group	Data structure	Members include: • ACLName • ACLNumber • ACLRuleID • ACLMode • Action • Protocol • SrcAddr • SrcWildLen • SrcPort • DesAddr • DesWildLen • DesPort	If the ACLRuleID is 65535, it means the ACL is an empty ACL. The ACL does not support to display object-group configuration.
ACLName	ACL name	N/A	String. • Length: 1 to 63 characters. • Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. • Default is 0.	○ Only when the ACL Name is empty, does the ACL Number make sense.
ACLRuleID	ACL Rule ID	N/A	Unsigned integer. Value range: 0 to 65535.	○ 65535 means the ACL rule is empty

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLMode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host. 3—aggregation.	- per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. - per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. - aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Action	The rule action	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
Protocol	IP protocol number	N/A	Unsigned integer.	Protocols common to RFC 1700, POSIX, and X/Open
SrcAddr	The source address of packets.	N/A	IPv6 address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcWildLen	The wildcard length of source address.	N/A	Unsigned integer.	N/A
SrcPort	The source port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A
DesAddr	The destination address of packets.	N/A	IPv6 address.	N/A
DesWildLen	The wildcard length of destination address.	N/A	Unsigned integer.	N/A
DesPort	The destination port of packets.	N/A	Unsigned integer. Range: 1 to 65535.	N/A

GdoiKeks

This table displays KEK information.

XML structure

```

<GdoiKeks>
  <KEK>
    <GroupName></GroupName>
    <RekeyTransportType></RekeyTransportType>
    <RemainingKeyLifetime></RemainingKeyLifetime>
    <EncryptionAlgorithm></EncryptionAlgorithm>
    <KeySize></KeySize>
    <SignatureAlg></SignatureAlg>
    <SignatureHashAlg></SignatureHashAlg>
    <SignatureKeyLength></SignatureKeyLength>
  </KEK>
</GdoiKeks>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiKeks
Table type	Multi-instance table

Item	Description
Row name	KEK
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GDOI GM group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RekeyTransportType	Transport type of rekey messages.	N/A	Enumeration: 1—Unicast 2—Multicast	N/A
RemainingKeyLifetime	KEK lifetime in seconds.	N/A	Unsigned integer.	Unit: second
EncryptionAlgorithm	KEK encryption algorithm.	N/A	Enumeration: 1—DES-CBC. 2—3DES-CBC. 3—AES-CBC.	N/A
KeySize	KEK key length.	N/A	Unsigned integer	N/A
SignatureAlg	KEK signature algorithm.	N/A	Enumeration: 1—RSA. 2—DSS. 3—ECDSS. 4—ECDSS-256. 5—ECDSS-384. 6—ECDSS-521.	N/A
SignatureHashAlg	KEK signature hash algorithm.	N/A	Enumeration: 1—MD5. 2—SHA1. 3—SHA256. 4—SHA384. 5—SHA512.	N/A
SignatureKeyLength	KEK signature key length in bits.	N/A	Unsigned integer.	N/A

GdoiGmTeks

This table displays TEK information of a group member.

XML structure

```
<GdoiGmTeks>
  <TEK>
```

```

    <GroupName></GroupName>
    <SPI></SPI>
    <Transform>
        <EncryptAlg></EncryptAlg>
        <AuthAlg></AuthAlg>
    </Transform>
    <RemainLifetime></RemainLifetime>
</TEK>
</GdoiGmTeks>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmTeks
Table type	Multi-instance table
Row name	TEK
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name for the GDOI GM group	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A.
SPI	SPI of the IPsec SA.	Index	Unsigned integer. Value range: 256 to 4294967295.	N/A
Transform	Transform encryption and authentication algorithm	Data structure	Members include: - EncryptAlg. - AuthAlg.	N/A
EncryptAlg	Encryption algorithm.	N/A	Enumeration: 0—NULL. 1—3DES-CBC. 2—AES-CBC-128. 3—AES-CBC-192. 4—AES-CBC-256. 5—DES-CBC. 6—Unknown.	N/A
AuthAlg	Authentication algorithm	N/A	Enumeration: 0—NULL. 1—MD5. 2—SHA1. 3—Unknown.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RemainLifetime	IPsec SA remaining lifetime in seconds.	N/A	Unsigned integer.	Unit: second.

GdoiIPv4Policies

This table displays GDOI policies of a GM group.

XML structure

```

<GdoiIPv4Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv4Policies>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	Sequence number of the IPsec policy entry	Index	Unsigned integer. Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name of the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name - Number	Use Type to specify which member is valid.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. Default is 0.	Only when the ACL Name is empty, does the ACL Number make sense.

GdoiIPv6Policies

This table displays GDOI IPv6 policies of a GM group.

XML structure

```

<GdoiIPv6Policies>
  <Policy>
    <PolicyName></PolicyName>
    <SeqNum></SeqNum>
    <GroupName></GroupName>
    <ACL>
      <Name></Name>
      <Number></Number>
    </ACL>
  </Policy>
</GdoiIPv6Policies>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiIPv6Policies
Table type	Multi-instance table
Row name	Policy

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPsec policy	Index	String, case-insensitive. Length: 1 to 63 characters.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same PolicyName.
SeqNum	Sequence number for the IPsec policy entry	Index	Unsigned integer. Value range: 1 to 65535.	An IPv4 IPsec policy and an IPv6 IPsec policy can use the same sequence number.
GroupName	Name for the GDOI GM group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A.
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name - Number.	N/A
Name	ACL name	N/A	String. Length: 1 to 63 characters. Default is empty.	If ACL Name is not empty, the ACL Number does not make sense.
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999. Default is 0.	Only when the ACL Name is empty, does the ACL Number make sense.

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GLB

GLB/ClearDNSMapStats

This table is used to clear the statistics of the DNS mapping.

XML structure

```
<GLB>
  <ClearDNSMapStats>
    <ClearDNSMapStat>
      <Name></Name>
      <Clear></Clear>
    </ClearDNSMapStat>
  </ClearDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearDNSMapStats
Table type	Multi-instance table
Row name	ClearDNSMapStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS mapping.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS mapping.	N/A	This column must be empty.	N/A

GLB/ClearAllDNSMapStats

This table is used to clear all DNS mapping' statistics.

XML structure

```
<GLB>
  <ClearAllDNSMapStats>
    <Clear></Clear>
  </ClearAllDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllDNSMapStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS mapping statistics.	N/A	This column must be empty.	N/A

GLB/TestIpv4Requests

This table is used to test IPv4 DNS requests in the specified VPN.

XML structure

```
<GLB>
  <TestIpv4Requests>
    <TestIpv4Request>
      <VRF></VRF>
      <DstIpv4Address></DstIpv4Address>
      <DstPort></DstPort>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv4Request>
  </TestIpv4Requests>
</GLB>
```

```

    </TestIpv4Requests>
  </GLB>

```

Responded XML structure

```

<GLB>
  <TestIpv4Results>
    <TestIpv4Result>
      <VRF></VRF>
      <DstIpv4Address></DstIpv4Address>
      <DstPort></DstPort>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DNSListener></DNSListener>
      <DNSZone></DNSZone>
      <DNSMap></DNSMap>
      <VSP></VSP>
      <PreferredAlgorithm></PreferredAlgorithm>
      <AlternateAlgorithm></AlternateAlgorithm>
      <FallbackAlgorithm></FallbackAlgorithm>
      <PrfAlgorithmFailedCause></PrfAlgorithmFailedCause>
      <AltAlgorithmFailedCause></AltAlgorithmFailedCause>
      <FbkAlgorithmFailedCause></FbkAlgorithmFailedCause>
      <VirtualServer></VirtualServer>
      <RespondType></RespondType>
      <FailedCause></FailedCause>
    </TestIpv4Result>
  </TestIpv4Results>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	TestIpv4Requests/TestIpv4Results
Table type	Multi-instance table
Row name	TestIpv4Request/TestIpv4Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv4Address	The IPv4 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv4Address	The IPv4 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: 0—A. 1—AAAA. 2—MX. 3—NS. 4—CNAME. 5—SOA. 6—PTR. 7—TXT. 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "1.1.1.1.in-addr.arpa." or "1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0.ip6.arpa". It means you must translate an IPv4 or IPv6 address to a domain name manually.
ChassisID	Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Slot ID of the card on the device.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Return columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv4Address	The IPv4 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv4Address	The IPv4 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "1.1.1.1.in-addr.arpa." or "1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0.ip6.arpa".
ChassisID	Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DNSListener	Name of the DNS listener.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
DNSZone	Name of the DNS zone or reverse zone.	N/A	String, case-insensitive. Length: 0 to 253 characters.	The null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
VSP	Name of the virtual server pool.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	N/A
AlternateAlgorithm	Algorithm.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	
FallbackAlgorithm	Algorithm.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	N/A
PrfAlgorithmFailedCause	The cause of preferred algorithm schedule failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AltAlgorithmFailedCause	The cause of alternate algorithm schedule failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual server.	N/A
FbkAlgorithmFailedCause	The cause of fallback algorithm schedule failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual server.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive.	The null string indicates the label is not

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters.	configured.
RespondType	Response type.	N/A	Enumeration: 0—Send response. 1—Send rejected. 2—No response. 3—Proxy.	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual server.	N/A

GLB/TestIpv6Requests

This table is used to test IPv6 DNS requests in the specified VPN.

XML structure

```

<GLB>
  <TestIpv6Requests>
    <TestIpv6Request>
      <VRF></VRF>
      <DstIpv6Address></DstIpv6Address>
      <DstPort></DstPort>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
    </TestIpv6Request>
  </TestIpv6Requests>
</GLB>

```

```

    <ChassisID></ChassisID>
    <SlotID></SlotID>
    <CPUID></CPUID>
  </TestIpv6Request>
</TestIpv6Requests>
</GLB>

```

Responded XML structure

```

<GLB>
  <TestIpv6Results>
    <TestIpv6Result>
      <VRF></VRF>
      <DstIpv6Address></DstIpv6Address>
      <DstPort></DstPort>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcPort></SrcPort>
      <Type></Type>
      <DomainName></DomainName>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DNSListener></DNSListener>
      <DNSZone></DNSZone>
      <DNSMap></DNSMap>
      <VSP></VSP>
      <PreferredAlgorithm></PreferredAlgorithm>
      <AlternateAlgorithm></AlternateAlgorithm>
      <FallbackAlgorithm></FallbackAlgorithm>
      <PrfAlgorithmFailedCause></PrfAlgorithmFailedCause>
      <AltAlgorithmFailedCause></AltAlgorithmFailedCause>
      <FbkAlgorithmFailedCause></FbkAlgorithmFailedCause>
      <VirtualServer></VirtualServer>
      <RespondType></RespondType>
      <FailedCause></FailedCause>
    </TestIpv6Result>
  </TestIpv6Results>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	TestIpv6Requests/TestIpv6Results
Table type	Multi-instance table

Row name	TestIpv6Request/TestIpv6Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv6Address	The IPv6 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv6Address	The IPv6 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "1.1.1.1.in-addr.arpa." or "1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0.ip6.arpa". It means you must translate an IPv4 or IPv6 address to a domain name manually.
ChassisID	Chassis ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Return columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	A null string indicates the public network.
DstIpv6Address	The IPv6 destination address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcIpv6Address	The IPv6 source address of DNS request packets.	Index	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS request packets.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Type	The type of DNS request packets.	Index	Enumeration: • 0—A. • 1—AAAA. • 2—MX. • 3—NS. • 4—CNAME. • 5—SOA. • 6—PTR. • 7—TXT. • 8—SRV.	N/A
DomainName	The domain of DNS request packets.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). If the type is set to PTR, the DomainName must be set in the format of "1.1.1.1.in-addr.arpa." or "1.1.0.0.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.1.1.0.0.1.1.0.0.ip6.arpa".
ChassisID	Chassis ID of the device that holds	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the card.		Value range: 0 to 255.	
SlotID	Slot ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DNSListener	Name of the DNS listener.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
DNSZone	Name of the DNS zone or reverse zone.	N/A	String, case-insensitive. Length: 0 to 253 characters.	The null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
VSP	Name of the virtual server pool.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
AlternateAlgorithm	Algorithm.	N/A	Enumeration: • 0—None • 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	
FallbackAlgorithm	Algorithm.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	N/A
PrfAlgorithmFailedCause	The cause of preferred algorithm schedule failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			server.	
AltAlgorithmFailedCause	The cause of alternate algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
FbkAlgorithmFailedCause	The cause of fallback algorithm schedule failure.	N/A	Enumeration: • 0—Successful. • 1—No matched DNS listener. • 2—No matched DNS mapping. • 3—No matched virtual server pool. • 4—No matched DNS zone. • 5—No matched DNS reverse zone. • 6—Fails to get buffer. • 7—Fails to get MDC. • 8—No matched record. • 9—No enough memory resource. • 10—Fails to parse domain. • 11—Fails to find DNS listener by ID. • 12—No scheduling content. • 13—Scheduling failed. • 14—No matched virtual server.	N/A
VirtualServer	Name of the	N/A	String, case-insensitive.	The null string indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
	virtual server.		Length: 0 to 63 characters.	the label is not configured.
RespondType	Response type.	N/A	Enumeration: 0—Send response. 1—Send rejected. 2—No response. 3—Proxy.	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: 0—Successful. 1—No matched DNS listener. 2—No matched DNS mapping. 3—No matched virtual server pool. 4—No matched DNS zone. 5—No matched DNS reverse zone. 6—Fails to get buffer. 7—Fails to get MDC. 8—No matched record. 9—No enough memory resource. 10—Fails to parse domain. 11—Fails to find DNS listener by ID. 12—No scheduling content. 13—Scheduling failed. 14—No matched virtual server.	N/A

GLB/ClearAllDNSRecords

This table is used to clear all DNS parsing failure records.

XML structure

```

<GLB>
  <ClearAllDNSRecords>
    <Clear></Clear>
  </ClearAllDNSRecords>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllDNSRecords
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS parsing failure records.	N/A	This column must be empty.	N/A

Contents

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XML structure	2
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GLB

GLB/DNSMaps

This table contains information about DNS map.

XML structure

```
<GLB>
  <DNSMaps>
    <DNSMap>
      <Name></Name>
      <VRF></VRF>
      <TTL></TTL>
      <VirtualServerPool></VirtualServerPool>
      <ServiceEnable></ServiceEnable>
    </DNSMap>
  </DNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMaps
Table type	Multi-instance table
Row name	DNSMap
Restrictions	Only DNS map can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
TTL	TTL time of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DNS recorder.		Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	
VirtualServerPool	Name of the virtualserverpool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the DNS map.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

GLB/DNSMapDomains

This table contains information about DNS map domain.

XML structure

```
<GLB>
  <DNSMapDomains>
    <DNSMapDomain>
      <DNSMap></DNSMap>
      <Domain></Domain>
    </DNSMapDomain>
  </DNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapDomains
Table type	Multi-instance table
Row name	DNSMapDomain
Restrictions	Only DNS map domain can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSMap	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.

GLB/VirtualServerPools

This table contains information about virtual server pool.

XML structure

```

<GLB>
  <VirtualServerPools>
    <VirtualServerPool>
      <Name></Name>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <HashPreIpv4PrefixLength></HashPreIpv4PrefixLength>
      <HashPreIpv6PrefixLength></HashPreIpv6PrefixLength>
      <HashAltIpv4PrefixLength></HashAltIpv4PrefixLength>
      <HashAltIpv6PrefixLength></HashAltIpv6PrefixLength>
      <HashFbIpv4PrefixLength></HashFbIpv4PrefixLength>
      <HashFbIpv6PrefixLength></HashFbIpv6PrefixLength>
    </VirtualServerPool>
  </VirtualServerPools>

```


</GLB>

Table description

Item	Description
Feature name	GLB
Table name	VirtualServerPools
Table type	Multi-instance table
Row name	VirtualServerPool
Restrictions	Only virtual server pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PredictorAlternate	Predictor alternate algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	N/A
PredictorFallback	Predictor fallback	N/A	Enumeration: 0—None	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm for LB to select a virtual server to be the DNS recorder for client response.		• 1—Round-robin • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
PredictorPreferred	Predictor preferred algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 1—Round-robin (default). • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BusyProtect Enable	Enable the busy protection.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
HashPreIpv4PrefixLength	Length of IPv4 address mask for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashPreIpv6PrefixLength	Length of IPv6 address prefix for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv4PrefixLength	Length of IPv4 address mask for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv6PrefixLength	Length of IPv6 address prefix for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv4PrefixLength	Length of IPv4 address mask for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv6PrefixLength	Length of IPv6 address prefix for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).

GLB/VSPVirtualServers

This table contains information about Virtual Server Pool Virtual Server.

XML structure

```

<GLB>
  <VSPVirtualServers>
    <VSPVirtualServer>
      <VirtualServerPool></VirtualServerPool>
      <VirtualServer></VirtualServer>
      <Link></Link>
      <Weight></Weight>
    </VSPVirtualServer>
  </VSPVirtualServers>

```

</GLB>

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualServers
Table type	Multi-instance table
Row name	VSPVirtualServer
Restrictions	Only VSP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	Larger number means higher weight.

GLB/DNSZones

This table contains information about DNS zone.

XML structure

```
<GLB>
  <DNSZones>
    <DNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSZone>
  </DNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZones
Table type	Multi-instance table
Row name	DNSZone
Restrictions	Only DNS zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the DNS zone,.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the DNS zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneSOAs

This table contains information about DNS zone soa resource record.

XML structure

```
<GLB>
  <DNSZoneSOAs>
    <DNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </DNSZoneSOA>
  </DNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneSOAs
Table type	Multi-instance table
Row name	DNSZoneSOA
Restrictions	Only DNS zone soa resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
PrimaryNS	Name of the Primary name server.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. By default, the value is 1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second. By default, the value is 3600s.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second. By default, the value is 600s.	N/A
Expire	Expire time	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: second. By default, the value is 86400s.	
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneMXRRs

This table contains information about DNS zone mx resource record.

XML structure

```

<GLB>
  <DNSZoneMXRRs>
    <DNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
      <TTL></TTL>
    </DNSZoneMXRR>
  </DNSZoneMXRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneMXRRs
Table type	Multi-instance table
Row name	DNSZoneMXRR
Restrictions	Only DNS zone mx resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneCNAMERRs

This table contains information about DNS zone cname resource record.

XML structure

```

<GLB>
  <DNSZoneCNAMERRs>
    <DNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
      <TTL></TTL>
    </DNSZoneCNAMERR>
  </DNSZoneCNAMERRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB

Table name	DNSZoneCNAMERRs
Table type	Multi-instance table
Row name	DNSZoneCNAMERR
Restrictions	Only DNS zone cname resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneNSRRs

This table contains information about DNS zone ns resource record.

XML structure

```

<GLB>
  <DNSZoneNSRRs>
    <DNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
      <TTL></TTL>
    </DNSZoneNSRR>
  </DNSZoneNSRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneNSRRs
Table type	Multi-instance table
Row name	DNSZoneNSRR
Restrictions	Only DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative nameserver name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZones

This table contains information about DNS reverse zone.

XML structure

```
<GLB>
  <DNSRevZones>
    <DNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
    </DNSRevZone>
  </DNSRevZones>
</GLB>
```

```

    </DNSRevZones>
  </GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZones
Table type	Multi-instance table
Row name	DNSRevZone
Restrictions	Only DNS reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addresses	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A

GLB/DNSRevZoneRRs

This table contains information about DNS reverse zone resource record.

XML structure

```

<GLB>
  <DNSRevZoneRRs>
    <DNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneRR>
  </DNSRevZoneRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneRRs
Table type	Multi-instance table
Row name	DNSRevZoneRR
Restrictions	Only DNS reverse zone resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Addresses	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZoneIPv6s

This table contains information about DNS ipv6 reverse zone.

XML structure

```
<GLB>
  <DNSRevZoneIPv6s>
```

```

<DNSRevZoneIPv6>
  <IPv6Address></IPv6Address>
  <IPv6PrefixLength></IPv6PrefixLength>
</DNSRevZoneIPv6>
</DNSRevZoneIPv6s>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6s
Table type	Multi-instance table
Row name	DNSRevZoneIPv6
Restrictions	Only DNS ipv6 reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Addresses	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A

GLB/DNSRevZoneIPv6RRs

This table contains information about DNS reverse zone ipv6 resource record.

XML structure

```

<GLB>
  <DNSRevZoneIPv6RRs>
    <DNSRevZoneIPv6RR>
      <ReverseZoneIPv6></ReverseZoneIPv6>
      <ReverseZonePrefix></ReverseZonePrefix>
      <IPv6Address></IPv6Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneIPv6RR>
  </DNSRevZoneIPv6RRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6RRs
Table type	Multi-instance table
Row name	DNSRevZoneIPv6RR
Restrictions	Only DNS reverse zone ipv6 resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIPv6	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
ReverseZoneMask	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6Addresses	IPv6 address of the PTR resource record.	Index	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRecordMaxNum

This table contains information about DNS record max number.

XML structure

```
<GLB>
  <DNSRecordMaxNum>
    <MaxNumber></MaxNumber>
  </DNSRecordMaxNum>
```

</GLB>

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordMaxNum
Table type	Simple-instance table
Row name	DNSRecordMaxNum
Restrictions	Only DNS Record max number can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxNumber	The max number of the DNS record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 10000.	N/A

GLB/DNSRecordType

This table contains information about DNS record type.

XML structure

```
<GLB>
  <DNSRecordType>
    <A></A>
    <AAAA></AAAA>
    <CNAME></CNAME>
    <MX></MX>
    <NS></NS>
    <SOA></SOA>
    <SRV></SRV>
    <TXT></TXT>
    <PTR></PTR>
  </DNSRecordType>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordType
Table type	Simple-instance table
Row name	DNSRecordType
Restrictions	Only DNS Record type can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
A	The A type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
NS	The NS type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A

GLB/DNSZoneTXTRRs

This table contains information about DNS zone txt resource record.

XML structure

```
<GLB>
  <DNSZoneTXTRRs>
    <DNSZoneTXTRR>
      <Zone></Zone>
      <Sub></Sub>
      <Description></Description>
      <TTL></TTL>
    </DNSZoneTXTRR>
  </DNSZoneTXTRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneTXTRRs
Table type	Multi-instance table
Row name	DNSZoneTXTRR
Restrictions	Only DNS zone txt resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Sub	Sub name of the resource record.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Description	Description text of the resource record.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneSRVRRs

This table contains information about DNS zone srv resource record.

XML structure

```
<GLB>
  <DNSZoneSRVRRs>
    <DNSZoneSRVRR>
      <Zone></Zone>
      <ServiceName></ServiceName>
      <HostName></HostName>
      <Port></Port>
      <Priority></Priority>
      <Weight></Weight>
      <TTL></TTL>
    </DNSZoneSRVRR>
  </DNSZoneSRVRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSRVRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneSRVRR
Restrictions	Only Global DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
ServiceName	Service name.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
HostName	Host name offering the service.	Index	String, case-insensitive. Length: 1 to 254	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Port	Port number of the resource record.	Index	Unsigned integer. Value range: 0 to 65535.	Index
Priority	Priority of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	The smaller the value, the higher the priority.
Weight	Weight value of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

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Columns	25

GLB

GLB/DNSMaps

This table contains information about DNS map.

XML structure

```
<GLB>
  <DNSMaps>
    <DNSMap>
      <Name></Name>
      <VRF></VRF>
      <TTL></TTL>
      <VirtualServerPool></VirtualServerPool>
      <ServiceEnable></ServiceEnable>
    </DNSMap>
  </DNSMaps>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSMaps
Table type	Multi-instance table
Row name	DNSMap
Restrictions	Only DNS map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: second.	
VirtualServerPool	Name of the virtualserverpool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the DNS map.	N/A	Enumeration: 0—Disable 1—Enable.	N/A

GLB/DNSMapDomains

This table contains information about DNS map domain.

XML structure

```

<GLB>
  <DNSMapDomains>
    <DNSMapDomain>
      <DNSMap></DNSMap>
      <Domain></Domain>
    </DNSMapDomain>
  </DNSMapDomains>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapDomains
Table type	Multi-instance table
Row name	DNSMapDomain
Restrictions	Only DNS map domain can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSMap	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the DNS map.	Index	String, case-insensitive. Length: 1 to 253	The string can contain letters, numbers, hyphens (-), underscores

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	(), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.

GLB/DNSMapStats

This table contains stat information about DNS map.

XML structure

```

<GLB>
  <DNSMapStats>
    <DNSMapStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <MatchedDnsReqs></MatchedDnsReqs>
    </DNSMapStat>
  </DNSMapStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSMapStats
Table type	Multi-instance table
Row name	DNSMapStat
Restrictions	Only stats of DNS map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MatchedDnsReqs	Matched DNS Requests that the DNS listener received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

GLB/VirtualServerPools

This table contains information about virtual server pool.

XML structure

```

<GLB>
  <VirtualServerPools>
    <VirtualServerPool>
      <Name></Name>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <TotalVirtualServers></TotalVirtualServers>
      <ActiveVirtualServers></ActiveVirtualServers>
      <HashPreIpv4PrefixLength></HashPreIpv4PrefixLength>
      <HashPreIpv6PrefixLength></HashPreIpv6PrefixLength>
      <HashAltIpv4PrefixLength></HashAltIpv4PrefixLength>
      <HashAltIpv6PrefixLength></HashAltIpv6PrefixLength>
      <HashFbIpv4PrefixLength></HashFbIpv4PrefixLength>
      <HashFbIpv6PrefixLength></HashFbIpv6PrefixLength>
    </VirtualServerPool>
  </VirtualServerPools>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	VirtualServerPools
Table type	Multi-instance table
Row name	VirtualServerPool
Restrictions	Only virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PredictorAlternate	Predictor alternate algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: 0—None 1—Round-robin 2—Random. 3—Least-connection. 4—Topology 5—Proximity. 6—Hash source address. 7—Hash source port. 8—Hash destination address. 9—Bandwidth. 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth.	N/A
PredictorFallback	Predictor fallback algorithm for LB to select a	N/A	Enumeration: 0—None 1—Round-robin	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	virtual server to be the DNS recorder for client response.		• 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	
PredictorPreferred	Predictor preferred algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: • 1—Round-robin. • 2—Random. • 3—Least-connection. • 4—Topology • 5—Proximity. • 6—Hash source address. • 7—Hash source port. • 8—Hash destination address. • 9—Bandwidth. • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth.	N/A
BusyProtectEnable	Enable the busy	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protection.		0—Disable. 1—Enable.	
TotalVirtualServers	Total number of virtual servers in the virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ActiveVirtualServer	Active number of virtual servers in the virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
HashPreIpv4PrefixLength	Length of IPv4 address mask for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashPreIpv6PrefixLength	Length of IPv6 address prefix for preferred hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv4PrefixLength	Length of IPv4 address mask for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashAltIpv6PrefixLength	Length of IPv6 address prefix for alternate hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv4PrefixLength	Length of IPv4 address mask for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	The column only can be configured when the Predictor is hash source address (6), hash source port (7) and hash destination address (8).
HashFbIpv6PrefixLength	Length of IPv6 address prefix for fallback hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	The column only can be configured when the Predictor hash source address (6), hash source port (7) and hash destination address (8).

GLB/VSPVirtualServers

This table contains information about Virtual Server Pool Virtual Server.

XML structure

```

<GLB>
  <VSPVirtualServers>
    <VSPVirtualServer>

```

```

    <VirtualServerPool></VirtualServerPool>
    <VirtualServer></VirtualServer>
    <Link></Link>
    <Weight></Weight>
    <Ipv4Address></Ipv4Address>
    <Ipv6Address></Ipv6Address>
    <PortNumber></PortNumber>
    <State></State>
  </VSPVirtualServer>
</VSPVirtualServers>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	VSPVirtualServers
Table type	Multi-instance table
Row name	VSPVirtualServer
Restrictions	Only VSP Virtual Servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VirtualServerPool	Name of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual server.	N/A	Unsigned integer. Value range: 1 to 255.	Larger number means higher weight.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available. 2—Busy.	N/A

GLB/DNSZones

This table contains information about DNS zone.

XML structure

```

<GLB>
  <DNSZones>
    <DNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSZone>
  </DNSZones>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZones
Table type	Multi-instance table
Row name	DNSZone
Restrictions	Only DNS zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the DNS zone,.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the DNS zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
By default, the value is 3600s.				

GLB/DNSZoneSOAs

This table contains information about DNS zone soa resource record.

XML structure

```

<GLB>
  <DNSZoneSOAs>
    <DNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </DNSZoneSOA>
  </DNSZoneSOAs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneSOAs
Table type	Multi-instance table
Row name	DNSZoneSOA
Restrictions	Only DNS zone soa resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
PrimaryNS	Name of the Primary name server.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. By default, the value is 1.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second. By default, the value is 3600s.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second. By default, the value is 600s.	N/A
Expire	Expire time	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second. By default, the value is 86400s.	N/A
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneMXRRs

This table contains information about DNS zone mx resource record.

XML structure

```

<GLB>
  <DNSZoneMXRRs>
    <DNSZoneMXRR>

```



```

    <Zone></Zone>
    <Host></Host>
    <MailServer></MailServer>
    <Preference></Preference>
    <TTL></TTL>
  </DNSZoneMXRR>
</DNSZoneMXRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneMXRRs
Table type	Multi-instance table
Row name	DNSZoneMXRR
Restrictions	Only DNS zone mx resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Host	Host name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
MailServer	Mail exchange name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Preference	Preference value	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSZoneCNAMERRs

This table contains information about DNS zone cname resource record.

XML structure

```
<GLB>
  <DNSZoneCNAMERRs>
    <DNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
      <TTL></TTL>
    </DNSZoneCNAMERR>
  </DNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneCNAMERRs
Table type	Multi-instance table
Row name	DNSZoneCNAMERR
Restrictions	Only DNS zone cname resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Alias	Alias name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Canonical	Canonical name	N/A	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	record.		Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	

GLB/DNSZoneNSRRs

This table contains information about DNS zone ns resource record.

XML structure

```

<GLB>
  <DNSZoneNSRRs>
    <DNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
      <TTL></TTL>
    </DNSZoneNSRR>
  </DNSZoneNSRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneNSRRs
Table type	Multi-instance table
Row name	DNSZoneNSRR
Restrictions	Only DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
SubName	Sub domain	Index	String,	The string can contain letters,

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		case-insensitive. Length: 1 to 254 characters.	numbers, hyphens (-), underscores (_), and dots (.).
NameServer Name	Authoritative nameserver name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600s.	N/A

GLB/DNSRevZones

This table contains information about DNS reverse zone.

XML structure

```

<GLB>
  <DNSRevZones>
    <DNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
    </DNSRevZone>
  </DNSRevZones>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZones
Table type	Multi-instance table
Row name	DNSRevZone
Restrictions	Only DNS reverse zone can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addresses	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A

GLB/DNSRevZoneRRs

This table contains information about DNS reverse zone resource record.

XML structure

```
<GLB>
  <DNSRevZoneRRs>
    <DNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneRR>
  </DNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneRRs
Table type	Multi-instance table
Row name	DNSRevZoneRR
Restrictions	Only DNS reverse zone resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
IPv4Addresses	IPv4 address of the PTR resource record.	Index	String. Dotted decimal notation.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

GLB/DNSRevZoneIPv6s

This table contains information about DNS ipv6 reverse zone.

XML structure

```
<GLB>
  <DNSRevZoneIPv6s>
    <DNSRevZoneIPv6>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
    </DNSRevZoneIPv6>
  </DNSRevZoneIPv6s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6s
Table type	Multi-instance table
Row name	DNSRevZoneIPv6
Restrictions	Only DNS ipv6 reverse zone can be configured by this table.

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Addresses	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A

GLB/DNSRevZoneIPv6RRs

This table contains information about DNS reverse zone ipv6 resource record.

XML structure

```
<GLB>
  <DNSRevZoneIPv6RRs>
    <DNSRevZoneIPv6RR>
      <ReverseZoneIPv6></ReverseZoneIPv6>
      <ReverseZonePrefix></ReverseZonePrefix>
      <IPv6Address></IPv6Address>
      <DomainName></DomainName>
      <TTL></TTL>
    </DNSRevZoneIPv6RR>
  </DNSRevZoneIPv6RRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRevZoneIPv6RRs
Table type	Multi-instance table
Row name	DNSRevZoneIPv6RR
Restrictions	Only DNS reverse zone ipv6 resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIPv6	IPv6 address of the reverse zone.	Index	Hexadecimal string, colon-separated.	Example: 2::2.
ReverseZoneMask	IPv6 prefix length of the reverse zone.	Index	Unsigned integer. Value range: 0 to 128.	N/A
IPv6Addresses	IPv6 address of the PTR resource record.	Index	Hexadecimal string, colon-separated.	N/A
DomainName	Domain name	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

GLB/DNSRecordMaxNum

This table contains information about the DNS record max number.

XML structure

```

<GLB>
  <DNSRecordMaxNum>
    <MaxNumber></MaxNumber>
  </DNSRecordMaxNum>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordMaxNum
Table type	Simple-instance table
Row name	DNSRecordMaxNum
Restrictions	Only DNS Record max number can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxNumber	The max number of DNS records.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

GLB/DNSRecordType

This table contains information about DNS record types.

XML structure

```
<GLB>
  <DNSRecordType>
    <A></A>
    <AAAA></AAAA>
    <CNAME></CNAME>
    <MX></MX>
    <NS></NS>
    <SOA></SOA>
    <SRV></SRV>
    <TXT></TXT>
    <PTR></PTR>
  </DNSRecordType>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecordType
Table type	Simple-instance table
Row name	DNSRecordType
Restrictions	Only DNS Record type can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
A	The A type of the DNS	N/A	Unsigned integer. 0—don't record.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	record.		1—record.	
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
NS	The NS type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. 0—don't record. 1—record.	N/A

GLB/AllDNSRecords

This table contains information about DNS records.

XML structure

```

<GLB>
  <AllDNSRecords>
    <AllDNSRecord>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <OrderNumber></OrderNumber>
      <Time></Time>
      <Type></Type>
      <SrcIpAddress></SrcIpAddress>
      <SrcPort></SrcPort>
      <DstIpAddress></DstIpAddress>
      <DstPort></DstPort>
    </AllDNSRecord>
  </AllDNSRecords>
</GLB>

```

```

    <VRF></VRF>
    <Domain></Domain>
    <FailedCourse></FailedCourse>
  </AllDNSRecord>
</AllDNSRecords>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DNSRecord
Table type	Simple-instance table
Row name	DNSRecord
Restrictions	Only DNS Record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
OrderNumber	The number of DNS records.	Index	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
Time	Time when the DNS request was received.	N/A	DateTime. Format: YYYY-MM-DDTHH:M M:SS.	N/A
Type	The type of the DNS record.	N/A	Enumeration: 0—A . 1—AAAA . 2—MX . 3—NS . 4—CNAME . 5—SOA . 6—PTR . 7—TXT. 8—SRV.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIpAddresses	The IP source address of DNS record.	N/A	String. Dotted decimal notation.	N/A
SrcPort	The source port of DNS record.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstIpAddresses	The IP destination address of DNS record.	N/A	String. Dotted decimal notation.	N/A
DstPort	The destination port of DNS record.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VRF	The VRF name of the DNS record.	N/A	String. Length: 0 to 31 characters.	N/A
Domain	The domain of the DNS record.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
FailedCause	The failure cause of the DNS record.	N/A	Enumeration. • 0—" ". • 1—No matched DNS listener. • 2—No matched DNS map. • 3—No matched virtual-server-pool. • 4—No matched DNS zone. • 5—Failed to get buffer. • 6—Failed to get MDC. • 7—No matched record. • 8 No enough memory resource. • 9—Failed to parse domain. • 10—Failed to find DNS listener by ID. • 11—No schedule content. • 12—Schedule failed. • 13—No matched virtual-server-member.	N/A

GLB/DNSZoneTXTRRs

This table contains information about DNS zone txt resource records.

XML structure

```
<GLB>
  <DNSZoneTXTRRs>
    <DNSZoneTXTRR>
      <Zone></Zone>
      <Sub></Sub>
      <Description></Description>
      <TTL></TTL>
    </DNSZoneTXTRR>
  </DNSZoneTXTRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DNSZoneTXTRRs
Table type	Multi-instance table
Row name	DNSZoneTXTRR
Restrictions	Only DNS zone txt resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Sub	Sub name of the resource record.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Description	Description text of the resource record.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
TTL	TTL time of the resource	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	record.		Value range: 0 to $2^{32}-1$. Unit: second.	

GLB/DNSZoneSRVRRs

This table contains information about DNS zone srv resource records.

XML structure

```

<GLB>
  <DNSZoneSRVRRs>
    <DNSZoneSRVRR>
      <Zone></Zone>
      <ServiceName></ServiceName>
      <HostName></HostName>
      <Port></Port>
      <Priority></Priority>
      <Weight></Weight>
      <TTL></TTL>
    </DNSZoneSRVRR>
  </DNSZoneSRVRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSRVRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneSRVRR
Restrictions	Only Global DNS zone ns resource record can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the DNS zone.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceName	Service name.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
HostName	Host name offering the service.	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Port	Port number of the resource record.	Index	Unsigned integer. Value range: 0 to 65535.	Index
Priority	Priority of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	The smaller the value, the higher the priority.
Weight	Weight value of the resource record.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL time of the resource record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

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HardwareQueue

HardwareQueue/QueueMode

This table contains information about queue schedule mode on an interface.

XML structure

```
<HardwareQueue>
  <QueueMode>
    <Queue>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </Queue>
  </QueueMode>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Mode	Queue schedule mode on an interface.	N/A	Enumeration: • 1—SP. • 2—Weight WRR. • 3—Bytecount WRR. • 4—Weight WFQ. • 5—Bytecount WFQ.	The default priority trust mode on an interface varies by device.

HardwareQueue/QueueParameter

This table contains information about schedule parameters for the queues on an interface.

XML structure

```
<HardwareQueue>
  <QueueParameter>
    <Queue>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <GroupID></GroupID>
      <Weight></Weight>
      <ByteCount></ByteCount>
      <MinBandwidthKbps></MinBandwidthKbps>
    </Queue>
  </QueueParameter>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue schedule mode on an interface is SP, do not support this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
GroupID	Group ID	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Weight	Queue weight	N/A	Unsigned integer	The value is valid only when the scheduling unit

Column name	Column description	Column type	Data type and restrictions	Remarks
				is weight.
ByteCount	Queue byte-count	N/A	Unsigned integer	The value is valid only when the scheduling unit is byte-count.
MinBandwidth Kbps	Value of minimum bandwidth	N/A	Unsigned integer	The value is valid only when the queue is a WFQ queue.

HardwareQueue/QMProfiles

This table contains information about queue scheduling profile.

XML structure

```

<HardwareQueue>
  <QMProfiles>
    <Qmprofile>
      <Name></Name>
      <Mode></Mode>
      <Type></Type>
    </Qmprofile>
  </QMProfiles>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfiles
Table type	Multi-instance table
Row name	Qmprofile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Mode	Queue scheduling	N/A	Enumeration: • 0—Advanced.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile mode		1—Basic.	
Type	Queue scheduling profile type	N/A	Enumeration: 0—Eight-queue. 1—Four-queue.	N/A

HardwareQueue/QMProfileQueue

This table contains information about schedule parameters for the queues on a QMProfile.

XML structure

```

<HardwareQueue>
  <QMProfileQueue>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <Mode></Mode>
      <GroupID></GroupID>
      <Unit></Unit>
      <Value></Value>
      <MinBandwidthKbps></MinBandwidthKbps>
      <MaxBandwidthKbps></MaxBandwidthKbps>
      <ServiceType></ServiceType>
    </Queue>
  </QMProfileQueue>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue scheduling profile is not created, this table is not supported.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
Mode	Queue mode type	N/A	Enumeration: 1—SP. 2—WRR. 3—WFQ.	When the operation is remove or delete want to set default value. If the item of <i>Mode</i> is change. The other column items will be default value.
GroupID	Group ID	N/A	Unsigned integer	When the Queue mode type is SP. The <i>GroupID</i> can't be set. When the operation is remove or delete want to set default value. the item of <i>Mode</i> must to be set.
Unit	Scheduling unit	N/A	Enumeration: 1—Weight. 2—Bytecount.	When the Queue mode type is SP. The <i>Scheduling Uint</i> can't be set. When the operation is remove or delete want to set default value. the item of <i>Mode</i> must to be set.
Value	Scheduling value	N/A	Unsigned integer	When the Queue mode type is SP. The <i>Scheduling Value</i> can't be set. When the operation is remove or delete want to set default value. the item of <i>Mode</i> must to be set.
MinBandwidth Kbps	Minimum bandwidth in kbps	N/A	Unsigned integer	The value of this column depends on the device model.
MaxBandwidth hKbps	Maximum bandwidth in kbps	N/A	Unsigned integer	The value of this column depends on the device model.
ServiceType	ServiceType	N/A	Enumeration: 0—HSI. 1—STB. 2—VOIP	N/A

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XML structure	4
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HardwareQueue

HardwareQueue/QueueMode

This table contains information about queue schedule mode on an interface.

XML structure

```
<HardwareQueue>
  <QueueMode>
    <Queue>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </Queue>
  </QueueMode>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
Mode	Queue schedule mode on an interface	N/A	Enumeration: • 1—SP. • 2—Weight WRR. • 3—Bytecount WRR. • 4—Weight WFQ. • 5—Bytecount WFQ.	The default priority trust mode on an interface varies by device

HardwareQueue/QueueParameter

This table contains information about schedule parameters for the queues on an interface.

XML structure

```
<HardwareQueue>
  <QueueParameter>
    <Queue>
      <IfIndex></IfIndex>
      <QueueID></QueueID>
      <GroupID></GroupID>
      <Weight></Weight>
      <ByteCount></ByteCount>
      <MinBandwidthKbps></MinBandwidthKbps>
    </Queue>
  </QueueParameter>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue schedule mode on an interface is SP, do not support this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
GroupID	Group ID.	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Weight	Queue weight	N/A	Unsigned integer	N/A
ByteCount	Queue	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	byte-count			
MinBandwidth Kbps	Value of minimum bandwidth	N/A	Unsigned integer	The value is valid only when the queue is a WFQ queue.

HardwareQueue/QMProfiles

This table contains information about queue scheduling profile.

XML structure

```

<HardwareQueue>
  <QMProfiles>
    <Qmprofile>
      <Name></Name>
      <Mode></Mode>
      <Type></Type>
    </Qmprofile>
  </QMProfiles>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfiles
Table type	Multi-instance table
Row name	Qmprofile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Mode	Queue scheduling profile mode	N/A	Enumeration: 0—Advanced. 1—Basic.	N/A
Type	Queue scheduling	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile Type		0—Eight-queue. 1—Four-queue.	

HardwareQueue/QMProfileQueue

This table contains information about schedule parameters for the queues on a QMProfile.

XML structure

```

<HardwareQueue>
  <QMProfileQueue>
    <Queue>
      <Name></Name>
      <QueueID></QueueID>
      <Mode></Mode>
      <GroupID></GroupID>
      <Unit></Unit>
      <Value></Value>
      <MinBandwidthKbps></MinBandwidthKbps>
      <MaxBandwidthKbps></MaxBandwidthKbps>
      <ServiceType></ServiceType>
    </Queue>
  </QMProfileQueue>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	QMProfileQueue
Table type	Multi-instance table
Row name	Queue
Restrictions	When queue scheduling profile not creat, do not support this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Queue scheduling profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
Mode	Queue mode type	N/A	Enumeration: • 1—SP. • 2—WRR. • 3—WFQ.	N/A
GroupID	Group ID	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Unit	Scheduling unit	N/A	Enumeration: • 1—Weight. • 2—Bytecount.	N/A
Value	Scheduling value	N/A	Unsigned integer	N/A
MinBandwidth Kbps	Minimum bandwidth	N/A	Unsigned integer	N/A
MaxBandwidth hKbps	Maximum bandwidth	N/A	Unsigned integer	N/A
ServiceType	Service type	N/A	Enumeration: • 0—HSI. • 1—STB. • 2—VOIP	N/A

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Ifmgr

Ifmgr/Interfaces

This table contains interface action information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Clear></Clear>
      <Default></Default>
      <Loopback></Loopback>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.	Index	Unsigned integer.
Clear	Clears interface statistics.	N/A	This column must be empty.
Default	Restore default settings.	N/A	This column must be empty.

Column name	Column description	Column type	Data type and restrictions
Loopback	Interface loopback testing.	N/A	Enumeration: • 1—Internal • 2—External Applicable to only Ethernet interfaces and AUX interfaces which loopback testing can be auto stopped.

Ifmgr/ClearAllIfStatistics

This table is used to clear statistics on all interfaces.

XML structure

```

<Ifmgr>
  <ClearAllIfStatistics>
    <Clear></Clear>
  </ClearAllIfStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all interfaces.	N/A	This column must be empty.

Ifmgr/SubInterfaces

This table is used to create or delete sub-interfaces.

XML structure

```
<Ifmgr>
  <SubInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <SubNum></SubNum>
      <Remove></Remove>
    </Interface>
  </SubInterfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	SubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	• Create: Interface index of parent interface. • Delete: Interface index of the sub-interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SubNum	Sub-interface number.	N/A	Unsigned integer	• Applicable to only create a sub-interface • This column must be specified when create a sub-interface. • The range of SubNum is reference in table

Column name	Column description	Column type	Data type and restrictions	Remarks
				of InterfaceCapabilities which in Data API.
Remove	Delete specified sub-interface.	N/A	This column must be empty.	Applicable to only delete a sub-interface

Ifmgr/LogicInterfaces

This table is used to create or delete logic interfaces.

XML structure

```

<Ifmgr>
  <LogicInterfaces>
    <Interface>
      <IfTypeExt></IfTypeExt>
      <Number></Number>
      <Remove></Remove>
    </Interface>
  </LogicInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	LogicInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfTypeExt	The type of interface.	Index	Unsigned integer	IfTypeExt is Reference in table of Ifmgr/Interfaces.which in Data API. The supported logic interface type as follow: 16—IF_LOOPBACK_TYPE 41—IF_VLAN_TY

Column name	Column description	Column type	Data type and restrictions	Remarks
				PE • 56—IF_BAGG_T TYPE • 67—IF_RAGG_T TYPE • 110— IF_RETH_TYPE • 114— IF_SSLVPNAC_T TYPE
Number	Number of the logic interface.	Index	Unsigned integer	The range of Number is Reference in table of InterfaceCapabilities which in Data API.
Remove	Delete specified logic interface.	N/A	This column must be empty.	Applicable to only delete a logic interface.

Ifmgr/VirtualCableTest

This table is used to test the cable connection of Ethernet interfaces and get the test results.

XML structure

```

<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
    </Interface>
  </VirtualCableTest>
</Ifmgr>

```

Responded XML structure

```

<Ifmgr>
  <VirtualCableTest>
    <Interface>
      <IfIndex></IfIndex>
      <CableStatus></CableStatus>
      <CableLen></CableLen>
      <Mismatch></Mismatch>
      <PairSkew></PairSkew>
      <PairSwap></PairSwap>
      <PairPolarity></PairPolarity>
      <InsertionLoss></InsertionLoss>
      <ReturnLoss></ReturnLoss>
      <NearEndCrosstalk></NearEndCrosstalk>
    </Interface>
  </VirtualCableTest>
</Ifmgr>

```

```

    </Interface>
  </VirtualCableTest>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	VirtualCableTest
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of FastEthernet, GigabitEthernet and Ten-GigabitEthernet.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Responded Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	
CableStatus	Cable status of an interface	N/A	Enumeration: 0—The test failed. 1—Normal, the cable is in good condition. 2—Abnormal (open), an open circuit is detected. 3—Abnormal (short), a short circuit is detected. 4—Abnormal, the cable is abnormal.	
CableLen	Cable length of an interface	N/A	Unsigned integer, in metres.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Mismatch	Pair impedance mismatch information of an interface	N/A	Unsigned integer: • 0xffffffff—Not support • 0—Mismatch • Others—Match	
PairSkew	Pair skew information of an interface	N/A	Unsigned integer, in ns. The value is 0xffffffff if not support.	
PairSwap	Pair swap information of an interface	N/A	Unsigned integer: • 0xffffffff—Not support • 0—Normal • Others—Swap	
PairPolarity	Pair polarity information of an interface	N/A	Unsigned integer: • 0xffffffff—Not support • 0—Normal • Others—Swap	
InsertionLoss	Insertion loss information of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
ReturnLoss	Return loss information of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	
NearEndCrosstalk	Near-end crosstalk of an interface	N/A	Unsigned integer, in db. The value is 0xffffffff if not support.	

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Ifmgr

Ifmgr/Interfaces

This table contains basic interface information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Description></Description>
      <AdminStatus></AdminStatus>
      <ConfigSpeed></ConfigSpeed>
      <ConfigDuplex></ConfigDuplex>
      <PortLayer></PortLayer>
      <LinkType></LinkType>
      <PVID></PVID>
      <MAC></MAC>
      <Loopback></Loopback>
      <MDI></MDI>
      <ConfigMTU></ConfigMTU>
      <ConfigBandwidth></ConfigBandwidth>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <KeepAlive></KeepAlive>
      <KeepAliveRetry></KeepAliveRetry>
    </Interface>
  </Interfaces>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see "Appendix"
Description	Interface description	N/A	String. Length: 1 to 255 characters. Default: <i>interface-name</i> Interface .	N/A
AdminStatus	Interface administration status	N/A	Enumeration: • 1—Up (default). • 2—Down.	N/A
ConfigSpeed	Configured speed of an interface.	N/A	Each bit represents a speed. As follows: • 1—Auto • 2—10Mbps • 4—100Mbps • 8—155Mbps • 16—622Mbps • 32—1Gbps • 64—2Gbps • 128—2.5Gbps • 256—4Gbps • 512—8Gbps • 1024—10Gbps • 2048—16Gbps • 4096—20Gbps • 8192—40Gbps • 16384—100Gbps	Examples: • 32—Speed is 1000Mbps. • 37—Auto-negotiation mode, and negotiation values are 100Mbps and 1000Mbps.
ConfigDuplex	Configured duplex mode of an interface	N/A	Enumeration: • 1—Full. • 2—Half. • 3—Auto.	Applicable to only Ethernet interfaces.
PortLayer	Port layer of an interface	N/A	Enumeration: • 1—Layer 2 • 2—Layer 3	Applicable to Ethernet interfaces.
LinkType	VLAN type of an interface	N/A	Enumeration: • 1—Access (default). • 2—Trunk. • 3—Hybrid.	Applicable to only Layer 2 interfaces.
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Loopback	Loopback test	N/A	Enumeration:	Applicable to only

Column name	Column description	Column type	Data type and restrictions	Remarks
			0—No loopback 1—Internal 2—External	interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: 1—MDI-II (straight-through cable) 2—MDI-X (crossover cable) 3—MDI-AUTO (auto-sensing)	Applicable to only Layer 2 Ethernet interfaces.
ConfigMTU	Configured MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ConfigBandwidth	Configured expected bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A
Interval	Sampling interval of an interface	N/A	Unsigned integer. Value range: 5 to 300, in seconds, in step of 5	N/A
ForceUP	Forcibly bring up an interface.	N/A	Boolean: - true - false	Applicable to only Ethernet and POS interfaces.
KeepAlive	KeepAlive value of an interface	N/A	Unsigned integer. Value range: 0 to 32767.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
KeepAliveRetry	KeepAlive retry times of an interface	N/A	Unsigned integer. Value range: 1 to 255.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.

Ifmgr/TrafficStatistics/Interval

This table contains traffic sampling interval information of all interfaces.

XML structure

```

<Ifmgr>
  <TrafficStatistics>
    <Interval>
      <Interval></Interval>
    </Interval>
  </TrafficStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	TrafficStatistics
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Sampling interval of all interfaces, in seconds, in step of 5.	N/A	Unsigned integer. It can configured only when Configurable" (Reference in table of TrafficStatistics/Interval which in Data API) value is true.

Ifmgr/EthInterfaces

This table contains Ethernet interfaces information.

XML structure

```
<Ifmgr>
  <EthInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <Jumboframe></Jumboframe>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
      </UnknownUnicastSuppression>
    </Interface>
  </EthInterfaces>
</Ifmgr>
```



```

    <BPDUDrop></BPDUDrop>
    <EEE></EEE>
    <ConnectMode></ConnectMode>
  </Interface>
</EthInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about the string type, see "Appendix"
Combo	Combo mode of an interface	N/A	Enumeration: 1—fiber mode 2—copper mode	
FlowControl	Flow control information of an interface	N/A	Enumeration: 1—Enable flow control 2—Disable 3—Only enable flow control packet receiving	Applicable to only Physical interfaces.
AutoPowerDown	Port auto power down	N/A	Boolean: - true - false	Applicable to only Physical interfaces.
Jumboframe	Jumbo frame information of an interface	N/A	Unsigned integer, the value is 0 if jumbo frame is disable on an interface.	
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Config broadcast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to 1.4881 × the maximum interface rate.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Config multicast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Config unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: true false	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: true false	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: 1—Normal connection mode 2—Extend connection mode	Applicable to only Layer 2 10GE Physical interfaces.

Ifmgr/StormConstrain/Interfaces

This table contains interface storm constrain information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <CtlMode></CtlMode>
        <Trap></Trap>
        <Log></Log>
        <Broadcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Broadcast>
        <Multicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </Multicast>
        <UnknownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </UnknownUnicast>
        <KnownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
        </KnownUnicast>
      </Interface>
    </Interfaces>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface

Item	Description
Restrictions	Applicable to only Layer 2 physical Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about the string type, see "Appendix"
CtlMode	Storm constrain protective action	N/A	Enumeration: • 0—N/A • 1—Block • 2—Shutdown	
Trap	Event trap switch	N/A	Boolean: • true • false	
Log	Event log switch	N/A	Boolean: • true • false	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Broadcast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Broadcast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Broadcast threshold unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Multicast	Multicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit	The Upper value must be not less than the Lower value.
Upper	Multicast upper	N/A	Unsigned integer. Value range:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	threshold value		- pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Multicast lower threshold value	N/A	Unsigned integer. Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Multicast threshold unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit	The Upper value must be not less than the Lower value.
Upper	Unknown-unicast upper threshold value	N/A	Unsigned integer. Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Unknown-unicast lower threshold value	N/A	Unsigned integer. Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Unknown-unicast unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
KnownUnicast	Known-unicast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit	The Upper value must be not less than the Lower value.
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Known-unicast lower threshold value	N/A	Unsigned integer. Value range: pps: 1 to $1.4881 \times$ the maximum interface rate	

Column name	Column description	Column type	Data type and restrictions	Remarks
			- ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Known-unicast unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	

Ifmgr/StormConstrain/Interval

This table contains storm constrain traffic collection interval information.

XML structure

```

<Ifmgr>
  <StormConstrain>
    <Interval>
      <Interval></Interval>
    </Interval>
  </StormConstrain>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	N/A
Restrictions	
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Traffic statistics collection interval for storm constrain, in seconds.	N/A	Unsigned integer. Value range: 1 to 300.

Ifmgr/PortIsolation/Groups

This table contains port isolation groups information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Groups>
      <Group>
        <IsolatedGroupID></IsolatedGroupID>
      </Group>
    </Groups>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation. The maximum group ID are in the MaxGroupNum column in the Ifmgr/PortIsolation/Capabilities table. If the maximum is 1: - Isolation group 1 is created automatically after device started. - Isolation group 1 cannot be created or deleted.
Support for row creation and deletion	Yes If the maximum is not 1. Yes—If the maximum group ID value is not 1. No—If the maximum group ID value is 1.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroup ID	Isolation group ID.	Index	Unsigned integer.	

Ifmgr/PortIsolation/Interfaces

This table contains interface isolation information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <IsolatedGroupID></IsolatedGroupID>
      </Interface>
    </Interfaces>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and Aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	For information about the string type, see "Appendix"
IsolatedGroupID	Port isolation group ID of an interface	N/A	Unsigned integer.	

Ifmgr/ReserveVlanInterface

This table contains the reservation of VLAN interface resources.

XML structure

```
<Ifmgr>
  <ReserveVlanInterface>
    <VlanInterface>
      <Type></Type>
      <VlanList></VlanList>
    </VlanInterface>
  </ReserveVlanInterface>
</Ifmgr>
```



```

    </ReserveVlanInterface>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	ReserveVlanInterface
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	N/A
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the reservation of VLAN interface resources is global or local.	Index	Enumeration: 1—Global. 2—Local.	The reservation of global VLAN interface resources or local VLAN interface resources.
VlanList	List of VLANs for the reservation of VLAN interface resources.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20 The item is permitted to be incrementally edited. You can set the flag like "<VlanList base:incremental='true'>". If the value is true, the VLAN list can be added or removed. Otherwise, it is the final result.

Ifmgr/CellularChannel

This table contains sub channel creating information of cellular controller.

XML structure

```

<Ifmgr>
  <CellularChannel>

```

```

<Interface>
  <IfIndex></IfIndex>
  <CreateMode></CreateMode>
  <ChannelNum></ChannelNum>
</Interface>
</CellularChannel>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	CellularChannel
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	For information about the string type, see "Appendix"
CreateMode	The mode of creating sub channel.	Index	Enumeration: 1—serial-set 2—eth-channel	N/A
ChannelNum	Sub channel number.	Index	Unsigned integer	N/A

Ifmgr/NewSubInterfaces

This table contains creating information of sub-interfaces.

XML structure

```

<Ifmgr>
  <NewSubInterfaces>

```

```

<Interface>
  <IfIndex></IfIndex>
  <SubNum></SubNum>
</Interface>
</NewSubInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	NewSubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the main interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about the string type, see "Appendix"
SubNum	Sub-interface number.	Index	Unsigned integer	The range for SubNum is shown in table of InterfaceCapabilities in Ifmgr NETCONF XML API Data Reference.

Appendix

A string can contain multiple items that are separated by commas (.). An item can be in one of the following formats:

- *interface name*
- *interface range-name*
- *interface name A to interface name B*

When you use an item in the *interface name* format, follow these restrictions and guidelines:

- Spaces are not allowed between the interface type and interface number.

Example:

Correct: GigabitEthernet1/3/0/1

Incorrect: GigabitEthernet 1/3/0/1

- If the interface name is the same as an existing interface range name, the system sends the request to interfaces in the interface range rather than the interface.

Example:

If you have configured the **interface range name** *Ten-Giga1/2/0/1 interface GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1** as an item, the system sends the request to interfaces in the interface range named **Ten-Giga1/2/0/1**.

When you use an item in the *interface range name* format, follow these restrictions and guidelines:

- If the interface range name is in the *interface name A, interface name B* format, the system sends the request to interface A and interface B rather than interfaces in the interface range.

Example:

After you configure the **interface range name** *Ten-Giga1/2/0/1, Ten-Giga1/2/0/2 interface GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1, Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 and Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

- If the interface range name is in the *interface name A to interface name B* format, the system sends the request to interfaces interface A through interface B rather than interfaces in the interface range.

Example:

After you configure the **interface range name** *Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2 interface GigabitEthernet1/3/0/1 to GigabitEthernet1/3/0/20* command and then use **Ten-Giga1/2/0/1 to Ten-Giga1/2/0/2** as an item, the system sends the request to interfaces Ten-GigabitEthernet 1/2/0/1 through Ten-GigabitEthernet 1/2/0/2 rather than interfaces GigabitEthernet 1/3/0/1 through GigabitEthernet 1/3/0/20.

When you use an item in the *interface name A to interface name B* format, follow these restrictions and guidelines:

- The interfaces before and after the word **to** must be of the same type and reside on the same card and sub-card.
- If the interfaces are subinterfaces, they must also belong to the same main interface.
- The end interface number must be larger than the start interface number.

Example:

Incorrect:

Ten2/0/1 to Ten3/0/2 The start and end interfaces reside on different cards.

Ten2/0/1 to Ten2/1/2 The start and end interfaces reside on different sub-cards.

Ten2/0/1 to Ten2/0/1:3 The start and end interfaces are of different types.

Giga2/0/1 to Ten2/0/25 The start and end interfaces are of different types.

Ten2/0/3:1 to Ten2/0/4:2 The start and end subinterfaces belong to different main interfaces.

Ten2/0/3:4 to Ten2/0/3:1 The start interface number is larger than the end interface number.

Correct:

Ten2/0/1 to Ten2/0/5

Ten2/0/1:1 to Ten2/0/1:100

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Columns	31

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XML structure	32
XML structure	33
Ifmgr/CellularChannel	34
XML structure	34
Table description	35
Ifmgr/NewSubInterfaces	35
XML structure	35
Table description	36
Columns	36

Ifmgr

Ifmgr/Interfaces

This table contains basic interface information.

XML structure

```
<Ifmgr>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <AbbreviatedName></AbbreviatedName>
      <PortIndex></PortIndex>
      <ifTypeExt></ifTypeExt>
      <ifType></ifType>
      <Description></Description>
      <AdminStatus></AdminStatus>
      <OperStatus></OperStatus>
      <ConfigSpeed></ConfigSpeed>
      <ActualSpeed></ActualSpeed>
      <ConfigDuplex></ConfigDuplex>
      <ActualDuplex></ActualDuplex>
      <PortLayer></PortLayer>
      <LinkType></LinkType>
      <PVID></PVID>
      <InetAddressIPv4></InetAddressIPv4>
      <InetAddressIPv4Mask></InetAddressIPv4Mask>
      <PhysicalIndex></PhysicalIndex>
      <MAC></MAC>
      <ForwardingAttributes></ForwardingAttributes>
      <Loopback></Loopback>
      <MDI></MDI>
      <ConfigMTU></ConfigMTU>
      <ActualMTU></ActualMTU>
      <ConfigBandwidth></ConfigBandwidth>
      <ActualBandwidth></ActualBandwidth>
      <SubPort></SubPort>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <Actual64Bandwidth></Actual64Bandwidth>
      <KeepAlive></KeepAlive>
      <KeepAliveRetry></KeepAliveRetry>
      <DefaultMac></DefaultMac>
      <LastChange></LastChange>
```

```

    <PhyLastChange></PhyLastChange>
  </Interface>
</Interfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
AbbreviatedName	Abbreviated name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
PortIndex	Port index	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ifTypeExt	Interface extension type	N/A	Unsigned integer.	For more information, see Table 2 .
ifType	Interface type	N/A	Unsigned integer.	Additional values for ifType are assigned by the Internet Assigned Numbers Authority (IANA), through updating the syntax of the IANA ifType textual convention.
Description	Interface	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 255 characters.	
AdminStatus	Interface administration status	N/A	Enumeration: 1—Administratively up. 2—Administratively down.	N/A
OperStatus	Interface operation status	N/A	Enumeration: 1—up. 2—down. 3—testing. 4—unknown. 5—dormant. 6—notPresent. 7—lowerLayerDown.	For more information, see 0.
ConfigSpeed	Configured speed of an interface, in kbps	N/A	Each bit represents a speed As follows: 1—Auto 2—10Mbps 4—100Mbps 8—155Mbps 16—622Mbps 32—1Gbps 64—2Gbps 128—2.5Gbps 256—4Gbps 512—8Gbps 1024—10Gbps 2048—16Gbps 4096—20Gbps 8192—40Gbps 16384—100Gbps	Examples: 32—Speed is 1000Mbps. 37—Auto-negotiation mode, and negotiation values are 100Mbps and 1000Mbps.
ActualSpeed	Actual speed of an interface, in kbps	N/A	Unsigned integer. Value range: 0 to 2 ⁶⁴ -1.	Applicable to only Ethernet interfaces.
ConfigDuplex	Configured duplex mode of an interface	N/A	Enumeration: 1—Full. 2—Half. 3—Auto.	Applicable to only Ethernet interfaces.
ActualDuplex	Actual duplex mode of an interface	N/A	Enumeration: 1—Full. 2—Half. 3—Auto.	Applicable to only Ethernet interfaces.
PortLayer	Port layer of an interface	N/A	Enumeration: 1—Layer 2 2—Layer 3	N/A
LinkType	VLAN type of an interface	N/A	Enumeration: 1—Access. 2—Trunk. 3—Hybrid.	Applicable to only Layer 2 interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
PVID	Port VLAN ID (PVID) of an interface	N/A	Unsigned integer. Value range: 1 to 4094.	Applicable to only Layer 2 interfaces.
InetAddressIPv4	Primary IPv4 address of an interface	N/A	String, dotted decimal notation.	N/A
InetAddressIPv4Mask	Primary IPv4 address mask of an interface	N/A	String, dotted decimal notation.	N/A
PhysicalIndex	Entity index of an interface	N/A	Unsigned integer.	Applicable to only Physical interfaces.
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A.
ForwardingAttributes	Forwarding attributes of an interface	N/A	Bit mask: 1: Broadcast 2: Non-Broadcast Multi-Access 4: Loopback 8: P2P 16: Multicast 32: Network Management Interface	Applicable to only Layer 3 interfaces.
Loopback	Loopback test	N/A	Enumeration: 0—No loopback 1—Internal 2—External	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: 1—MDI-II (straight-through cable) 2—MDI-X (crossover cable) 3—MDI-AUTO (auto-sensing)	Applicable to only Layer 2 Ethernet interfaces.
ConfigMTU	Configured MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ActualMTU	Actual MTU of an interface	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
ConfigBandwidth	Configured expected bandwidth of an interface	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A
ActualBandwidth	Bandwidth of an interface	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	If the expected bandwidth has been configured, this field displays the configured expected bandwidth. Otherwise, this field displays the actual bandwidth.

Column name	Column description	Column type	Data type and restrictions	Remarks
SubPort	Whether the port is sub-interface.	N/A	Boolean: - true - false	N/A
Interval	Sampling interval of an interface	N/A	Unsigned integer. Value range: 5 to 300, in seconds, in step of 5	N/A
ForceUP	Forcibly bring up an interface.	N/A	Boolean: true false	Applicable to only Ethernet and POS interfaces.
Actual64Bandwidth	Bandwidth of an interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the expected bandwidth has been configured, this field displays the configured expected bandwidth. Otherwise, this field displays the actual bandwidth.
KeepAlive	KeepAlive value of an interface	N/A	Unsigned integer. Value range: 0 to 32767.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
KeepAliveRetry	KeepAlive retry times of an interface	N/A	Unsigned integer. Value range: 1 to 255.	Applicable to interfaces that support only link layer protocols PPP, HDLC, and Frame Relay.
DefaultMac	Default MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
LastChange	From last state change time to now.	N/A	String.	N/A
PhyLastChange	From last physical state change time to now.	N/A	String.	N/A

Table 1 Interface operation status

Value	Operation status	Remarks
1	up	When the administration status of an interface changes to up, the operation status of the interface changes to up if the interface is ready to transmit and receive network traffic.
2	down	- When the administration status of an interface changes to up, the operation status of the interface remains in the down status if a fault prevents it from going to the up status. - When the administration status of an interface changes to down, the

Value	Operation status	Remarks
		operation status of the interface changes to down.
3	testing	No operation packets can be transmitted or received through the interface.
4	unknown	The operation status of the interface cannot be determined.
5	dormant	When the administration status of an interface changes to up, the operation status of the interface changes to dormant if the interface is waiting for external actions (such as a serial line waiting for an incoming connection).
6	notPresent	When the administration status of an interface changes to up, the operation status of an interface remains in the notPresent status if the interface has missing components (typically hardware).
7	lowerLayerDown	The lower-layer interfaces are down.

Table 2 Interface extension types

Value	Interface type	Description
0	IF_COMMON_TYPE	General interface.
1	IF_AM_TYPE	Analog modem interface.
2	IF_ASY_TYPE	Asynchronous serial port.
3	IF_IMA_TYPE	IMA interface.
4	IF_ATM_TYPE	ATM interface.
5	IF_AUX_TYPE	AUX interface.
6	IF_BRI_TYPE	ISDN BRI interface.
7	IF_BVI_TYPE	Bridge-group virtual interface.
8	IF_CONSOLE_TYPE	Console interface.
9	IF_CPOS_TYPE	CPOS interface.
10	IF_DIALER_TYPE	Dialer interface.
11	IF_LOCAL_VA_TYPE	Local VA interface, bound to a physical interface.
12	IF_E1_TYPE	E1 interface.
13	IF_E3_TYPE	E3 interface.
14	IF_INETH_TYPE	Internal Ethernet interface.
15	IF_INLOOPBACK_TYPE	Internal loopback interface.
16	IF_LOOPBACK_TYPE	Loopback interface.
17	IF_ENCRYPT_TYPE	Encryption interface.
18	IF_L2ETHERNET_TYPE	Layer 2 FE interface.
19	IF_L2GE_TYPE	Layer 2 GE interface.
20	IF_L2VE_TYPE	Layer 2 VE interface.
21	IF_L2XGE_TYPE	Layer 2 10-GE interface.
22	IF_L3ETHERNET_TYPE	Layer 3 FE interface.
23	IF_L3GE_TYPE	Layer 3 GE interface.
24	IF_L3VE_TYPE	Layer 3 VE interface.

Value	Interface type	Description
25	IF_L3XGE_TYPE	Layer 3 10-GE interface.
26	IF_ME_TYPE	Management Ethernet interface.
27	IF_MFR_TYPE	MFR interface.
28	IF_MGE_TYPE	Management GE interface.
29	IF_MPGROUP_TYPE	MP-group interface.
30	IF_NULL_TYPE	Null interface.
31	IF_POS_TYPE	POS interface.
32	IF_RPR_POS_TYPE	RPR POS physical interface.
33	IF_RPR_XGE_TYPE	RPR 10-GE physical interface.
34	IF_RPR_GE_TYPE	RPR GE physical interface.
35	IF_SERIAL_TYPE	Serial interface.
36	IF_SUBSCRIBER_LINE_TYPE	Subscriber line interface.
37	IF_T1_TYPE	T1 interface.
38	IF_T3_TYPE	T3 interface.
39	IF_TUNNEL_TYPE	Tunnel interface.
40	IF_GLOBAL_VA_TYPE	Global VA interface, bound to a global logical interface.
41	IF_VLAN_TYPE	VLAN interface.
42	IF_VT_TYPE	VT interface.
43	IF_RADIO_DOT11_TYPE	WLAN-Radio interface.
44	IF_WLAN_ESS_TYPE	WLAN ESS interface.
45	IF_WLAN_DBSS_TYPE	WLAN DBSS interface.
46	IF_WLAN_BSS_TYPE	WLAN BSS interface.
47	IF_WLAN_ETH_TYPE	WLAN Ethernet interface.
48	IF_WLAN_TUN_TYPE	WLAN tunnel interface.
49	IF_OLT_TYPE	OLT interface.
50	IF_ONU_TYPE	ONU interface.
51	IF_MTUNNEL_TYPE	M-Tunnel interface.
52	IF_CELLULAR_TYPE	Cellular interface.
53	IF_INASY_TYPE	Internal asynchronous serial interface.
54	IF_L2RPR_TYPE	Layer 2 RPR logical interface.
55	IF_L3RPR_TYPE	Layer 3 RPR logical interface.
56	IF_BAGG_TYPE	Layer 2 aggregate interface.
57	IF_REGISTER_TUNNEL_TYPE	Register-Tunnel interface.
58	IF_LOOPFE_TYPE	Loopback FE interface.
59	IF_LOOPGE_TYPE	Loopback GE interface.
60	IF_LOOPXGE_TYPE	Loopback 10-GE interface.
61	IF_MIRRORFE_TYPE	Mirroring FE interface.

Value	Interface type	Description
62	IF_MIRRORGE_TYPE	Mirroring GE interface.
63	IF_MIRRORXGE_TYPE	Mirroring 10-GE interface.
64	IF_IDSFE_TYPE	IDS FE interface.
65	IF_IDSGE_TYPE	IDS GE interface.
66	IF_IDSXGE_TYPE	IDS 10-GE interface.
67	IF_RAGG_TYPE	Layer 3 aggregate interface.
68	IF_L2FGE_TYPE	Layer 2 40-GE interface.
69	IF_L2HGE_TYPE	Layer 2 100-GE interface.
70	IF_L3FGE_TYPE	Layer 3 40-GE interface.
71	IF_L3HGE_TYPE	Layer 3 100-GE interface.
72	IF_LOOPFGE_TYPE	Loopback 40-GE interface.
73	IF_LOOPHGE_TYPE	Loopback 100-GE interface.
74	IF_MIRRORFGE_TYPE	Mirroring 40-GE interface.
75	IF_MIRRORHGE_TYPE	Mirroring 100-GE interface.
76	IF_IDSFE_TYPE	IDS 40-GE interface.
77	IF_IDSHGE_TYPE	IDS 100-GE interface.
78	IF_FC_TYPE	FC interface.
79	IF_VFC_TYPE	VFC interface.
80	IF_FCB_TYPE	FC bundle interface.
81	IF_EVI_LINK_TYPE	EVI-link interface.
82	IF_SCHANNEL_TYPE	S-channel interface.
83	IF_FCM_TYPE	FCM interface.
84	IF_VPPP_TYPE	Virtual PPP interface.
85	IF_TRILL_REMOTE_TYPE	Remote TRILL interface.
86	IF_HDLCBUNDLE_TYPE	HDLC bundle interface.
87	IF_GSCHANNEL_TYPE	Aggregate S-channel interface.
88	IF_L2TGE_TYPE	Layer 2 20-GE interface.
89	IF_L3TGE_TYPE	Layer 3 20-GE interface.
90	IF_LOOP2TGE_TYPE	Loopback 20-GE interface.
91	IF_MIRROR2TGE_TYPE	Mirroring 20-GE interface.
92	IF_IDSTGE_TYPE	IDS 20-GE interface.
93	IF_AC_TYPE	AC interface.
94	IF_UPW_TYPE	U-PW interface.
95	IF_NPW_TYPE	N-PW interface.
96	IF_TUNNEL_BUNDLE_TYPE	Tunnel bundle interface.
97	IF_EFM_TYPE	EFM interface.
98	IF_MAPPED_TYPE	Mapped interface.

Value	Interface type	Description
99	IF_CBGE_TYPE	CBGE interface.
100	IF_CBXGE_TYPE	CBXGE interface.
101	IF_CBFGE_TYPE	CBFGE interface.
102	IF_CBHGE_TYPE	CBHGE interface.
103	IF_PEX_TYPE	PEX interface.
104	IF_VE_L2VPN_TYPE	L2VPN virtual Ethernet interface
105	IF_VE_L3VPN_TYPE	L3VPN virtual Ethernet interface
106	IF_BLADE_TYPE	Blade interface
107	IF_BLAGG_TYPE	Blade aggregation interface
108	IF_ETHCHANNEL_TYPE	
109	IF_BETH_TYPE	
110	IF_RETH_TYPE	
111	IF_CEM_TYPE	
128	IF_MAX_TYPE	N/A

Ifmgr/TrafficStatistics/Interfaces

This table contains interface traffic statistics during specific sampling periods.

XML structure

```

<Ifmgr>
  <TrafficStatistics>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <Name></Name>
        <Interval></Interval>
        <InPkts></InPkts>
        <OutPkts></OutPkts>
        <InOctets></InOctets>
        <OutOctets></OutOctets>
        <InBits></InBits>
        <OutBits></OutBits>
      </Interface>
    </Interfaces>
  </TrafficStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.
Interval	Sampling interval of an interface, in seconds	N/A	Unsigned integer.
InPkts	Number of inbound packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutPkts	Number of outbound packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InOctets	Number of inbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutOctets	Number of outbound bytes during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InBits	Number of inbound bits during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutBits	Number of outbound bits during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Ifmgr/TrafficStatistics/Interval

This table contains traffic sampling interval information of all interfaces.

XML structure

```
<Ifmgr>  
  <TrafficStatistics>
```



```

    <Interval>
      <Configurable></Configurable>
      <Interval></Interval>
    </Interval>
  </TrafficStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Configurable	Whether the sampling interval for all interfaces can be configured.	N/A	Boolean: true false
Interval	Sampling interval of all interfaces, in seconds.	N/A	Unsigned integer. It is valid only when "Configurable" above is true.

Ifmgr/Statistics

This table contains interface statistics.

XML structure

```

<Ifmgr>
  <Statistics>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <AbbreviatedName></AbbreviatedName>
      <InOctets></InOctets>
      <InUcastPkts></InUcastPkts>
      <InNUcastPkts></InNUcastPkts>
      <InDiscards></InDiscards>
      <InErrors></InErrors>
      <InUnknownProtos></InUnknownProtos>
    </Interface>
  </Statistics>
</Ifmgr>

```

```

<InRate></InRate>
<OutOctets></OutOctets>
<OutUcastPkts></OutUcastPkts>
<OutNUcastPkts></OutNUcastPkts>
<OutDiscards></OutDiscards>
<OutErrors></OutErrors>
<OutRate></OutRate>
<LastClear></LastClear>
<InPktRate></InPktRate>
<OutPktRate></OutPktRate>
</Interface>
</Statistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Statistics
Table type	Multi-instance table
Row name	Interface
Restrictions	The statistics can be cleared.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface.	N/A	String. Length: 2 to 47 characters.
AbbreviatedName	Abbreviated name of an interface.	N/A	String. Length: 2 to 47 characters.
InOctets	Number of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InUcastPkts	Number of inbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNUcastPkts	Number of inbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InDiscards	Number of discarded inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
InErrors	Number of errored inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InUnknownProtos	Number of unsupported and unknown inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InRate	Rate of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutOctets	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutUcastPkts	Number of outbound unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNUcastPkts	Number of outbound non-unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutDiscards	Number of discarded outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutErrors	Number of errored outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutRate	Rate of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
LastClear	Local time when the statistics on an interface were cleared most recently.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
InPktRate	Rate of inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutPktRate	Rate of outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Ifmgr/Ports

This table contains port information, such as all physical Ethernet interfaces, Layer 2 aggregate interface, Layer 2 VE interface, Layer 2 RPR logical interface, WLAN ESS interface, WLAN BSS interface, WLAN DBSS interface, WLAN tunnel interface, S-channel interface, Aggregate S-channel interface and other logical interfaces which are not Layer 2 Ethernet subinterfaces.

XML structure

```

<Ifmgr>
  <Ports>
    <Port>
      <PortIndex></PortIndex>
      <Name></Name>
      <IfIndex></IfIndex>
    </Port>
  </Ports>
</Ifmgr>

```

```

    </Port>
  </Ports>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PortIndex	Port index	Index	Unsigned integer.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.
IfIndex	Interface index	N/A	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Ifmgr/InterfaceCapabilities

This table contains port capability information.

XML structure

```

<Ifmgr>
  <InterfaceCapabilities>
    <Interface>
      <IfIndex></IfIndex>
      <Configurable></Configurable>
      <Shutdown></Shutdown>
      <Speed></Speed>
      <AutoSpeed></AutoSpeed>
      <Duplex></Duplex>
      <PortLayer></PortLayer>
      <Loopback></Loopback>
      <MDI></MDI>
    </Interface>
  </InterfaceCapabilities>
</Ifmgr>

```

```

    <Bandwidth></Bandwidth>
    <MinMTU></MinMTU>
    <MaxMTU></MaxMTU>
    <MinSubNum></MinSubNum>
    <MaxSubNum></MaxSubNum>
    <MaxCreateSubNum></MaxCreateSubNum>
    <ContextAllocType></ContextAllocType>
    <Removable></Removable>
    <Interval></Interval>
    <ForceUP></ForceUP>
    <LoopbackAutoStop></LoopbackAutoStop>
  </Interface>
</InterfaceCapabilities>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	InterfaceCapabilities
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Configurable	Whether the interface is configurable.	N/A	Boolean: true false	N/A
Shutdown	Whether the interface can be shutdown manually.	N/A	Boolean: true false	N/A
Speed	Mode s of speed which can be	N/A	Each bit represents a speed.	Example:

Column name	Column description configured.	Column type	Data type and restrictions	Remarks
			As follows: 1—Auto 2—10Mbps 4—100Mbps 8—155Mbps 16—622Mbps 32—1Gbps 64—2Gbps 128—2.5Gbps 256—4Gbps 512—8Gbps 1024—10Gbps 2048—16Gbps 4096—20Gbps 8192—40Gbps 16384—100Gbps	38 —Speed 10Mbps, 100Mbps, and 1Gbps are configurable.
AutoSpeed	Modes of auto-negotiation speed which can be configured.	N/A	Each bit represents a speed. As follows: 1—10Mbps 2—100Mbps 4—1Gbps	Example: 6—auto-negotiation speed 100Mbps and 1Gbps are configurable.
Duplex	Modes of duplex which can be configured.	N/A	Each bit represents a kind of duplex mode. As follows: 1— Full 2—Half 4—Auto	Applicable to only Ethernet interfaces. Example: 7—Duplex mode 'Full', 'Half' Auto 'Half' are configurable.
PortLayer	Whether the port layer can be changed.	N/A	Boolean: true false	Applicable to only Ethernet interfaces.
Loopback	Whether the loopback test can be configured.	N/A	Boolean: true false	Applicable to only Ethernet interfaces and AUX.
MDI	Types of MDI which can be configured.	N/A	Each bit represents a type of the line connected to the port. 1: mdi (straight-through cable) 2: mdix (crossover cable) 4: automdix (auto-sensing)	Applicable to only Layer 2 Ethernet interfaces. Example: 7—'mdi', 'mdix' and 'automdix' are configurable.
Bandwidth	Whether the bandwidth can be configured.	N/A	Boolean: true false	N/A
MinMTU	The minimum MTU which can be configured.	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxMTU	The maximum MTU which can be configured.	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
MinSubNum	Minimum sub-interface number.	N/A	Unsigned integer.	N/A
MaxSubNum	Maximum sub-interface number.	N/A	Unsigned integer.	N/A
MaxCreateSubNum	The total numbers of sub-interface which can be created.	N/A	Unsigned integer.	N/A
ContextAllocType	The allocation type of an interface for CONTEXT.	N/A	Each bit represents an allocation type. As follows: 1—The allocation type is shared. 2—The allocation type is exclusive.	Example: 3—The allocation types can be both shared and exclusive.
Removable	Whether the interface can be deleted.	N/A	Boolean: - true - false	N/A
Interval	Whether the sampling interval can be configured.	N/A	Boolean: true false	
ForceUP	Whether port force up can be configured.	N/A	Boolean: true false	Applicable to only Ethernet and POS interfaces.
LoopbackAutoStop	Whether the loopback detection can be auto stop.	N/A	Boolean: true false	

Ifmgr/TypeCapabilities

This table contains interface type capability information.

XML structure

```

<Ifmgr>
  <TypeCapabilities>
    <Capability>
      <IfTypeExt></IfTypeExt>
      <MinNum></MinNum>
      <MaxNum></MaxNum>
    
```

```

    <MinSubNum></MinSubNum>
    <MaxSubNum></MaxSubNum>
    <MaxCreateNum></MaxCreateNum>
    <MaxCreateSubNum></MaxCreateSubNum>
    <MAC></MAC>
  </Capability>
</TypeCapabilities>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	TypeCapabilities
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfTypeExt	Interface Type.	Index	Unsigned integer.	Refer to ifTypeExt object in table of Interfaces.
MinNum	Minimum interface number.	N/A	Unsigned integer.	N/A
MaxNum	Maximum interface number.	N/A	Unsigned integer.	N/A
MinSubNum	Minimum sub-interface number.	N/A	Unsigned integer.	Refer to MinSubNum in table of InterfaceCapabilities.
MaxSubNum	Maximum sub-interface number.	N/A	Unsigned integer.	Refer to MaxSubNum in table of InterfaceCapabilities.
MaxCreateNum	Total interface numbers which can be created.	N/A	Unsigned integer.	N/A
MaxCreateSubNum	Total sub-interface numbers which can be created.	N/A	Unsigned integer.	Refer to MaxCreateSubNum in table of InterfaceCapabilities.

Column name	Column description	Column type	Data type and restrictions	Remarks
MAC	Check whether a MAC address can be configured.	N/A	Boolean: - true - false	N/A

Ifmgr/EthInterfaces

This table contains Ethernet interface information.

XML structure

```

<Ifmgr>
  <EthInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <Jumboframe></Jumboframe>
      <BroadcastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </BroadcastSuppression>
      <MulticastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </MulticastSuppression>
      <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
      </UnknownUnicastSuppression>
      <BPDUUDrop></BPDUUDrop>
      <EEE></EEE>
      <ConnectMode></ConnectMode>
    </Interface>
  </EthInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr

Item	Description
Table name	EthInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Combo	Combo mode of an interface	N/A	Enumeration: 1—fiber mode 2—copper mode	Applicable to only Ethernet interfaces.
FlowControl	Flow control information of an interface	N/A	Enumeration: 1—Enable flow control 2—Disable 3—Only enable flow control packet receiving	Applicable to only Physical interfaces.
AutoPowerDown	Port auto power down	N/A	Boolean: - true - false	Applicable to only Physical interfaces.
Jumboframe	Jumbo frame information of an interface	N/A	Unsigned integer, the value is 0 if jumbo frame is disable on an interface.	
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Configured broadcast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to 1.4881 × the maximum interface rate. - kpps: 0 to the maximum interface rate	
ActualValue	Actual broadcast suppression value of an interface	N/A	Unsigned integer. Value range: - ratio: 0 to 100 - pps: 0 to 1.4881 × the maximum interface rate.	

Column name	Column description	Column type	Data type and restrictions	Remarks
			kbps: 0 to the maximum interface rate	
Unit	Broadcast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Configured multicast suppression value of an interface	N/A	Unsigned integer. Value range: ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
ActualValue	Actual multicast suppression value of an interface	N/A	Unsigned integer. Value range: ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	Multicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: - Value - Unit	
ConfigValue	Configured unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
ActualValue	Actual unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: ratio: 0 to 100 - pps: 0 to $1.4881 \times$ the maximum interface rate. - kbps: 0 to the maximum interface rate	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: 1—ratio 2—pps 3—kbps	

Column name	Column description	Column type	Data type and restrictions	Remarks
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: true false	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: true false	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: 1—Normal connection mode 2—Extend connection mode	Applicable to only Layer 2 10GE interfaces.

Ifmgr/EthInterfaceCapabilities

This table contains ethernet port capability information.

XML structure

```

<Ifmgr>
  <EthInterfaceCapabilities>
    <Interface>
      <IfIndex></IfIndex>
      <Combo></Combo>
      <StormConstrain></StormConstrain>
      <FlowControl></FlowControl>
      <AutoPowerDown></AutoPowerDown>
      <MinJumboframe></MinJumboframe>
      <MaxJumboframe></MaxJumboframe>
      <BPDUDrop></BPDUDrop>
      <EEE></EEE>
      <ConnectMode></ConnectMode>
    </Interface>
  </EthInterfaceCapabilities>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthInterfaceCapabilities
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Combo	Whether the fiber mode or copper mode can be activated.	N/A	Boolean: • true • false	
StormConstrain	Whether storm constrain can be configured.	N/A	Boolean: • true • false	Applicable to only L2 Ethernet interfaces.
FlowControl	Whether flow control can be configured.	N/A	Boolean: • true • false	Applicable to only physical interfaces.
AutoPowerDown	Whether auto power down can be configured.	N/A	Boolean: • true • false	Applicable to only physical interfaces.
MinJumboframe	The minimum jumboframe which can be configured.	N/A	Unsigned integer.	Applicable to only physical interfaces.
MaxJumboframe	The maximum jumboframe which can be configured.	N/A	Unsigned integer.	Applicable to only physical interfaces.
BPDUDrop	Whether bpdu drop can be configured.	N/A	Boolean: • true • false	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet can be configured.	N/A	Boolean: • true • false	Applicable to only Physical interfaces.
ConnectMode	Whether port connection mode can be configured.	N/A	Boolean: • true • false	Applicable to only Layer 2 10GE interfaces.

Ifmgr/StormConstrain/Interfaces

This table contains interface storm constrain information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <CtlMode></CtlMode>
        <Trap></Trap>
        <Log></Log>
        <Broadcast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </Broadcast>
        <Multicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </Multicast>
        <UnknownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </UnknownUnicast>
        <KnownUnicast>
          <Upper></Upper>
          <Lower></Lower>
          <Unit></Unit>
          <Forward></Forward>
          <SwitchNum></SwitchNum>
        </KnownUnicast>
      </Interface>
    </Interfaces>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 physical Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CtlMode	Storm constrain protective action	N/A	Enumeration: 0—N/A 1—Block 2—Shutdown	
Trap	Event trap switch	N/A	Boolean: - true - false	
Log	Event log switch	N/A	Boolean: - true - false	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit - Forward - SwitchNum	
Upper	Broadcast upper threshold value	N/A	Unsigned integer. Value range: - pps: 1 to $1.4881 \times$ the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum	

Column name	Column description	Column type	Data type and restrictions	Remarks
			interface rate	
Lower	Broadcast lower threshold value	N/A	Unsigned integer. Value range: - pps: 1 to 1.4881 × the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Broadcast threshold unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
Forward	Broadcast traffic forwarding status	N/A	Enumeration: 0—Forwarding 1—Block 2—Shutdown	
SwitchNum	Number of broadcast traffic forwarding state changes	N/A	Unsigned integer.	
Multicast	Multicast storm constrain information of an interface	N/A	Include: - Upper - Lower - Unit - Forward - SwitchNum	
Upper	Multicast upper threshold value	N/A	Unsigned integer. Value range: - pps: 1 to 1.4881 × the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Lower	Multicast lower threshold value	N/A	Unsigned integer. Value range: - pps: 1 to 1.4881 × the maximum interface rate - ratio: 1 to 100 - kbps: 1 to the maximum interface rate	
Unit	Multicast threshold unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
Forward	Multicast traffic forwarding status	N/A	Enumeration: 0—Forwarding 1—Block 2—Shutdown	
SwitchNum	Number of multicast traffic forwarding state	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	changes			
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Unknown-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Unknown-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Unit	Unknown-unicast unit	N/A	Enumeration: • 1—pps • 2—ratio • 3—kbps	
Forward	Unknown-unicast traffic forwarding status	N/A	Enumeration: • 0—Forwarding • 1—Block • 2—Shutdown	
SwitchNum	Number of unknown-unicast traffic forwarding state changes	N/A	Unsigned integer.	
KnownUnicast	Known-unicast storm constrain information of an interface	N/A	Include: • Upper • Lower • Unit • Forward • SwitchNum	
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate	
Lower	Known-unicast lower threshold value	N/A	Unsigned integer. Value range: • pps: 1 to $1.4881 \times$ the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum	

Column name	Column description	Column type	Data type and restrictions	Remarks
			interface rate	
Unit	Known-unicast unit	N/A	Enumeration: 1—pps 2—ratio 3—kbps	
Forward	Known-unicast traffic forwarding status	N/A	Enumeration: 0—Forwarding 1—Block 2—Shutdown	
SwitchNum	Number of known-unicast traffic forwarding state changes	N/A	Unsigned integer.	

Ifmgr/StormConstrain/Interval

This table contains storm constrain traffic collection interval information.

XML structure

```
<Ifmgr>
  <StormConstrain>
    <Interval>
      <Interval></Interval>
    </Interval>
  </StormConstrain>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interval
Table type	Single-instance table
Row name	N/A
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Traffic statistics collection interval for storm constrain	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	on all interfaces, in seconds		Value range: 1 to 300.

Ifmgr/PortIsolation/Groups

This table contains port isolation groups information.

XML structure

```

<Ifmgr>
  <PortIsolation>
    <Groups>
      <Group>
        <IsolatedGroupID></IsolatedGroupID>
        <InterfaceList></InterfaceList>
      </Group>
    </Groups>
  </PortIsolation>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsolatedGroup ID	Isolation group ID.	Index	Unsigned integer.	
InterfaceList	Interface IfIndex list of an isolation group ID.	N/A	Number string. It is a comma-separated list of IfIndex items. An item can be an individual IfIndex or an IfIndex range. Use a hyphen (-) to separate the start and end IfIndexes of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Examples: 1,2,3,5-8,10-20 Example: 1,2,3,5-8,10-20. Available IfIndexes are in the IfIndex column in the Ifmgr/Interfaces table.

Ifmgr/PortIsolation/Interfaces

This table contains interface isolation information.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <IsolatedGroupID></IsolatedGroupID>
      </Interface>
    </Interfaces>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only Layer 2 interfaces of Ethernet and aggregation.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IsolatedGroup ID	Port isolation group ID of an interface	N/A	Unsigned integer.	

Ifmgr/PortIsolation/Capabilities

This table contains port isolation groups capabilities on device.

XML structure

```
<Ifmgr>
  <PortIsolation>
    <Capabilities>
      <MaxGroupNum></MaxGroupNum>
    </Capabilities>
  </PortIsolation>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	Capabilities
Table type	Single-instance table
Row name	N/A
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroupNum	The maximum port isolation group number.	N/A	Unsigned integer.	

Ifmgr/ DeviceCapabilities

This table contains the capabilities of the interfaces on device.

XML structure

```
<Ifmgr>
  <DeviceCapabilities>
    <ManualNoLoopBack></ManualNoLoopBack>
  </DeviceCapabilities>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	DeviceCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ManualNoLoopBack	Whether you need to stop the loopback test on an interface manually	N/A	Boolean: - true - false	

Ifmgr/ReserveVlanInterface

This table contains the reservation of VLAN interface resources.

XML structure

```
<Ifmgr>
  <ReserveVlanInterface>
    <VlanInterface>
      <Type></Type>
      <VlanList></VlanList>
    </VlanInterface>
  </ReserveVlanInterface>
</Ifmgr>
```

Table description

Item	Description
Feature name	Ifmgr
Table name	ReserveVlanInterface
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the reservation of VLAN interface resources is global or local.	Index	Enumeration: 1—Global. 2—Local	The reservation of global VLAN interface resources or local VLAN interface resources.
VlanList	List of VLANs for the reservation of VLAN interface resources.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20

Ifmgr/ SubChannel

This table contains the sub channel index information of interface.

XML structure

```

<Ifmgr>
  <SubChannel>
    <Interface>
      <IfIndex></IfIndex>
      <CreateMode></CreateMode>
      <SubChannelIndex></SubChannelIndex>
    </Interface>
  </SubChannel>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	SubChannel
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CreateMode	The mode of creating sub channel.	Index	Enumeration: • 1—serial-set • 2—eth-channel	N/A
SubChannelIndex	The interface index of each subchannel.	Index	Unsigned integer	N/A

Ifmgr/CellularChannel

This table contains sub channel creating information of cellular controller.

XML structure

```
<Ifmgr>
  <CellularChannel>
    <Interface>
      <IfIndex></IfIndex>
      <CreateMode></CreateMode>
      <ChannelNum></ChannelNum>
    </Interface>
  </CellularChannel>
</Ifmgr>
```


Table description

Item	Description
Feature name	Ifmgr
Table name	CellularChannel
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CreateMode	The mode of creating sub channel.	Index	Enumeration: • 1—serial-set • 2—eth-channel	N/A
ChannelNum	Sub channel number.	Index	Unsigned integer	N/A

Ifmgr/NewSubInterfaces

This table contains creating information of sub-interfaces.

XML structure

```
<Ifmgr>
  <NewSubInterfaces>
    <Interface>
```

```

        <IfIndex></IfIndex>
        <SubNum></SubNum>
    </Interface>
</NewSubInterfaces>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	NewSubInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer	Interface index of the main interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SubNum	Sub-interface number.	Index	Unsigned integer	The range for SubNum is shown in the InterfaceCapabilities table.

Contents

- Interface event 1
 - XML structure for event subscription 1
 - XML structure for event report 1

Interface event

This event is used to report interface active/deactive or up/down information.

XML structure for event subscription

```
<InterfaceEvent>
  <Interface>
    <Name></Name>
  </Interface>
</InterfaceEvent>
```

Example:

```
<rpc message-id="101" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:xs="http://www.h3c.com/netconf/base:1.0">
  <create-subscription xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
    <stream>Ifmgr</stream>
    <filter type="subtree">
      <InterfaceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <Interface>
          <Name>Serial2/0/1</Name>
        </Interface>
      </InterfaceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr
Event name	InterfaceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No

XML structure for event report

```
<InterfaceEvent>
  <Interface>
    <Name></Name>
```

```

    <Status></Status>
    <Description></Description>
  </Interface>
</InterfaceEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <InterfaceEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <Interface>
      <Name>Serial2/0/1</Name>
      <Status>IF_ACTIVE</Status>
      <Description>The interface Serial2/0/1 status change to be IF_ACTIVE </Description>
    </Interface>
  </InterfaceEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Size: 1 to 47	No
Status	Interface status	Enumeration: • IF_ACTIVE • IF_DEACTIVE • IF_PHY_UP • IF_PHY_DOWN • IF_LINK_UP • IF_LINK_DOWN	No
Description	Ifmgr description. event	String. Size: 1 to 255	No

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XML structure	2
Table description	2
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IGMP

IGMP/Interfaces

This table contains IGMP interface information.

XML structure

```
<IGMP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
    </Interface>
  </Interfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	IGMP enable status	N/A	Boolean: true—Enabled. false—Disabled (default).	N/A
Version	IGMP version	N/A	Enumeration: 1—IGMP version 1. 2—IGMP version 2 (default). 3—IGMP version 3.	N/A

IGMP/HostInterfaces

This table contains IGMP host interface information.

XML structure

```
<IGMP>
  <HostInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
    </Interface>
  </HostInterfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	HostInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enabled	IGMP enable status	N/A	Boolean: true—Enabled. false—Disabled (default).	N/A

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XML structure	3
Table description	3
Columns	4
IGMP/HostInterfaces	4
XML structure	4
Table description	5
Columns	5

IGMP

IGMP/Interfaces

This table contains IGMP interface information.

XML structure

```
<IGMP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
      <Version></Version>
    </Interface>
  </Interfaces>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	IGMP enable status	N/A	Boolean: true—Enabled. false—Disabled.	N/A
Version	IGMP version	N/A	Enumeration: 1—IGMP version 1. 2—IGMP version 2. 3—IGMP version 3.	N/A

IGMP/Groups

This table contains IGMP group information.

XML structure

```

<IGMP>
  <Groups>
    <Group>
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <Uptime></Uptime>
      <Expires></Expires>
    </Group>
  </Groups>
</IGMP>

```

Table description

Item	Description
Feature name	IGMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
GroupAddr	IPv4 address.	Index	String, dotted decimal notation.	Example: 224.1.1.1.
Uptime	Length of time since the multicast group was reported.	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the multicast group.	N/A	Unsigned integer (in seconds).	N/A

IGMP/SrcList

This table contains source information of IGMP groups.

XML structure

```
<IGMP>
  <SrcList>
    <Src>
      <IfIndex></IfIndex>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <Uptime></Uptime>
      <Expires></Expires>
    </Src>
  </SrcList>
</IGMP>
```

Table description

Item	Description
Feature name	IGMP
Table name	SrcList
Table type	Multi-instance table

Item	Description
Row name	Src
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
GroupAddr	IPv4 address.	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Uptime	Length of time since the multicast source was reported.	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the multicast source.	N/A	Unsigned integer (in seconds).	N/A

IGMP/HostInterfaces

This table contains IGMP host interface information.

XML structure

```

<IGMP>
  <HostInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enabled></Enabled>
    </Interface>
  </HostInterfaces>
</IGMP>

```

Table description

Item	Description
Feature name	IGMP
Table name	HostInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enabled	IGMP enable status	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A

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XML structure	5
Table description	6
Columns	6

IGMPSnooping

IGMPSnooping/Configuration

This table contains global IGMP snooping information.

XML structure

```
<IGMPSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set IGMP snooping state globally.	N/A	Enumeration: • disable(default) • enable

IGMPSnooping/VLANs

This table contains the IGMP snooping information for vlans.

XML structure

```
<IGMPSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
    </VLAN>
  </VLANs>
</IGMPSnooping>
```

```

    <Enabled></Enabled>
    <Version></Version>
    <DropUnknown></DropUnknown>
    <Querier></Querier>
    <QueryInterval></QueryInterval>
    <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
    <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
  </VLAN>
</VLANs>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set IGMP snooping state for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: 2(default) 3	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
Querier	Set IGMP snooping querier for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
QueryInterval	Specify IGMP snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 300.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for specified VLAN.	N/A	Ipv4Address.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	Ipv4Address.	Example: 1.1.1.1.

IGMPSnooping/VSIs

This table contains the IGMP snooping information for VSIs.

XML structure

```

<IGMPSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    </VSI>
  </VSIs>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable IGMP snooping for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: 2(default) 3	N/A
DropUnknown	Enable IGMP snooping dropping unknown multicast data for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
Querier	Enable the IGMP snooping querier for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
QueryInterval	Set the IGMP snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.

IGMPSnooping/FastLeavePorts

This table contains the IGMP snooping fast leave information on ports.

XML structure

```
<IGMPSnooping>
  <FastLeavePorts>
    <Interface>
```

```

    <IfIndex></IfIndex>
    <FastLeaveVlanList></FastLeaveVlanList>
  </Interface>
</FastLeavePorts>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
FastLeaveVlanList	Set IGMP snooping fast leave vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

IGMPSnooping/GroupLimitPorts

This table contains the IGMP snooping group limit information on ports.

XML structure

```

<IGMPSnooping>
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
    </Interface>
  </GroupLimitPorts>
</IGMPSnooping>

```

```

    <Limit></Limit>
    <GroupLimitVlanList ></GroupLimitVlanList>
  </Interface>
</GroupLimitPorts>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set IGMP snooping group limit vlan-list on a port.	N/A	VlanRange.	You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Example: 1,2,3,5-8,10-20.

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IGMPSnooping

IGMPSnooping/Configuration

This table contains global IGMP snooping information.

XML structure

```
<IGMPSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</IGMPSnooping>
```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set IGMP snooping state globally.	N/A	Enumeration: • enable • disable

IGMPSnooping/VLANs

This table contains the IGMP snooping information for vlans.

XML structure

```
<IGMPSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
    </VLAN>
  </VLANs>
</IGMPSnooping>
```



```

    <Version></Version>
    <DropUnknown></DropUnknown>
    <Querier></Querier>
    <QueryInterval></QueryInterval>
    <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
    <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
  </VLAN>
</VLANs>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set IGMP snooping state for specified VLAN.	N/A	Enumeration: enable disable	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: 2 3	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: enable disable	N/A
Querier	Set IGMP snooping querier for specified VLAN.	N/A	Enumeration: enable disable	N/A
QueryInterval	Specify IGMP snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 300.	N/A
GeneralQuerySourceAddr	Specify the source IP	N/A	Ipv4Address.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of IGMP general queries for specified VLAN.			
SpecialQuery SourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	Ipv4Address.	Example: 1.1.1.1.

IGMPSnooping/VSI

This table contains the IGMP snooping information for VSIs.

XML structure

```

<IGMPSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    </VSI>
  </VSIs>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable IGMP snooping for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: • 2 • 3	N/A
DropUnknown	Enable IGMP snooping dropping unknown multicast data for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
Querier	Enable IGMP snooping querier for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
QueryInterval	Set the IGMP snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.

IGMPSnooping/FastLeavePorts

This table contains the IGMP snooping fast leave information on ports.

XML structure

```
<IGMPSnooping>  
  <FastLeavePorts>  
    <Interface>
```

```

    <IfIndex></IfIndex>
    <FastLeaveVlanList></FastLeaveVlanList>
  </Interface>
</FastLeavePorts>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
FastLeaveVlanList	Set IGMP snooping fast leave vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

IGMPSnooping/GroupLimitPorts

This table contains the IGMP snooping group limit information on ports.

XML structure

```

<IGMPSnooping>
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList></GroupLimitVlanList>
    </Interface>
  </GroupLimitPorts>

```

</IGMPSnooping>

Table description

Item	Description
Feature name	IGMPSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set IGMP snooping group limit vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

IGMPSnooping/IPv4Layer2MulticastGroups

This table contains information about Layer 2 IP multicast groups.

XML structure

```
<IGMPSnooping>
  <IPv4Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
```

```

    </VLAN>
  </IPv4Layer2MulticastGroups>
</IGMPSnooping>

```

Table description

Item	Description
Feature name	IGMPSnooping
Table name	IPv4Layer2MulticastGroups
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
GroupAddr	Multicast group.	Index	Ipv4Address.	N/A
SourceAddr	Multicast source.	Index	Ipv4Address.	N/A
IfIndex	IfIndex.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

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IKEv1

IKEv1/ ResetSAs

This table is used to reset IKE SAs.

XML structure

```
<IKEv1>
  <ResetSAs>
    <Reset>
      <ID></ID>
    </Reset>
  </ResetSAs>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	ResetSAs
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Connect-ID of IKE SA	Index	Integer When ID is zero it means reset all the IKE SA	N/A

IKEv1/ClearGlobalStatistics

This table is used to clear Globalstatistics.

XML structure

```
<IKEv1>
```



```

    <ClearGlobalStatistics>
      <Clear/>
    </ClearGlobalStatistics>
  </IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	ClearGlobalStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear IKE GlobalStatistics	N/A	Must be empty	N/A

IKEv1/ClearTunnelsStatistics

This table is used to clear Tunnel Statistics.

XML structure

```

<IKEv1>
  <ClearTunnelsStatistics>
    <Clear>
      <TunnelID></TunnelID>
    </Clear>
  </ClearTunnelsStatistics>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	ClearTunnelsStatistics
Table type	Multi-instance table

Item	Description
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IKE tunnel ID	Index	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A

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IKEv1

IKEv1/GlobalConfiguration

This table is used to configure IKE global configuration.

XML structure

```
<IKEv1>
  <GlobalConfiguration>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <Keepalive>
      <Interval></Interval>
      <Timeout></Timeout>
    </Keepalive>
    <SignIDfromCert></SignIDfromCert>
    <InvalidSPIRecovery></InvalidSPIRecovery>
    <NatKeepaliveInterval></NatKeepaliveInterval>
    <IKESACountLimit>
      <EstablishLimit></EstablishLimit>
      <NegotiateLimit></NegotiateLimit>
    </IKESACountLimit>
    <LocalID>
      <Type></Type>
      <IpAddress></IpAddress>
      <Value></Value>
    </LocalID>
  </GlobalConfiguration>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • 1—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
Keepalive	Global keepalive configuration	Data structure	Members include: • Interval • Timeout	N/A
Interval	Keepalive Interval	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
Timeout	Keepalive Timeout	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
SignIDfromCert	Digital signature authentication , If enable get the identity of the local end from the certificate	N/A	Boolean: • true—Enable. • false—Disable. Default value is false.	N/A
InvalidSPIRecovery	If enable Re-establish an IKE SA upon an invalid-SPI event	N/A	Boolean: • true—Enable. • false—Disable. Default value is false.	N/A
NatKeepaliveInterval	NAT keepalive Interval	N/A	Unsigned integer: Value range:5 to 300, in seconds. Default value is 20	N/A
IKESACountLimit	Limit the number of IKE SA established and in negotiation	Data structure	Members include: • EstablishLimit • NegotiateLimit	N/A
EstablishLimit	Limit the maximum number of established SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NegotiateLimit	Limit the maximum number of negotiation SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
LocalID	The identity of the local end	Data structure	Members include: - Type - IpAddress - Value	N/A
Type	The type of the identity	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—FQDN 4—User-FQDN 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.

IKEv1/Profiles

This table is used to configure IKE profiles.

XML structure

```

<IKEv1>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <Mode></Mode>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <KeychainList>
        <KeychainItem></KeychainItem>
      </KeychainList>
      <CertificateDomainList>
        <DomainItem></DomainItem>
      </CertificateDomainList>
      <CertACPList>

```

```

        <CertACPItem></CertACPItem>
    </CertACPList>
    <MatchRemoteFQDNList>
        <FQDNItem></FQDNItem>
    </MatchRemoteFQDNList>
    <MatchRemoteUserFQDNList>
        <UserFQDNItem></UserFQDNItem>
    </MatchRemoteUserFQDNList>
    <LocalID>
    <Type></Type>
    <IpAddress></IpAddress>
    <Value></Value>
</LocalID>
    <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
    </MatchLocalAddr>
    <DPD>
        <Mode></Mode>
        <Interval></Interval>
        <Retry></Retry>
    </DPD>
    <InsideVRF></InsideVRF>
    <ClientXauth></ClientXauth>
    <AAAAAuthorization>
        <Domain></Domain>
        <UserName></UserName>
    </AAAAAuthorization>
</Profile>
</Profiles>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE profile	N/A	Unsigned integer: Value range:1 to 65535 Default value is 100.	N/A
Mode	The phase 1 negotiation mode	N/A	Enumeration: 1—Main 2—Aggressive Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: ProposalItem	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 ProposalItem in ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: KeychainItem	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters	Case insensitive. Contains up to 6 KeychainItem in KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: DomainItem	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertACPList	Reference a PKI certificate access control policy for the IKE profile	Data structure	Members include: CertACPIItem	N/A
CertACPIItem	The Name of PKI certificate access control policy	N/A	String: Length:1 to 31 characters Case insensitive.	Contains unrestricted CertACPIItem in CertACPList.
MatchRemoteFQDNList	Configure a rule of match the peer FQDN information for the IKE profile	Data structure	Members include: FQDNItem	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDN List.
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: UserFQDNItem	N/A
UserFQDNItem	The peer user FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted UserFQDNItem in MatchRemoteUserFQDNList.
LocalID	The identity of the local end	Data structure	Members include: - Type - IpAddress - Value	N/A
Type	The type of the identity	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—FQDN 4—User-FQDN 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
MatchLocalAddress	Match the local address	Data structure	Members include: - AddressType - IpAddress - VRF - Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • 1—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
InsideVRF	The inside VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	N/A
ClientXauth	Whether the client authentication is enabled.	N/A	Boolean: • true • false (default)	N/A
AAAAutho rization	AAA authentication	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	Domain name must not include / \ " : * ? < > @, and must not be d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, if-unknown. Domain must be configured when the instance does not exist.
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	User name must not include \ / : * ? < > @, and must not be a, al, all.

IKEv1/MatchRemoteIpv4Address

This table is used to operate the rule about how to match remote identity when it's IPv4 address.

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	Index	Ipv4Address mask	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/MatchRemoteIpv6Address

This table is used to operate the rule about how to match remote identity when it's IPv6 address.

XML structure

```
<IKEv1>
```

```

<MatchRemoteIpv6Address>
  <RemoteID>
    <Profile></Profile>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <VRF></VRF>
  </RemoteID>
</MatchRemoteIpv6Address>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer: Value range:0 to 128, in seconds.	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv4Range

This table is used to operate the rule about how to match remote identity when it's IPv4 address range.

XML structure

```

<IKEv1>
  <MatchRemoteIpv4Range>
    <RemoteID>

```

```

    <Profile></Profile>
    <BeginIpv4Address></BeginIpv4Address>
    <EndIpv4Address></EndIpv4Address>
    <VRF></VRF>
  </RemoteID>
</MatchRemoteIpv4Range>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
EndIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv6Range

This table is used to operate the rule about how to match remote identity when it's IPv6 range.

XML structure

```

<IKEv1>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
    </RemoteID>
  </MatchRemoteIpv6Range>
</IKEv1>

```

```

    <VRF></VRF>
  </RemoteID>
</MatchRemoteIpv6Range>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv6Address	Start IPv6 Address	Index	Ipv6Address	N/A
EndIpv6Address	End IPv6 Address	Index	Ipv6Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/Proposals

This table is used to configure IKE proposals.

XML structure

```

<IKEv1>
  <Proposals>
    <Proposal>
      <Priority></Priority>
      <AuthorityMethod></AuthorityMethod>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
    </Proposal>
  </Proposals>
</IKEv1>

```

```

    <DHID></DHID>

    <SADuration></SADuration>

    <Description></Description>
  </Proposal>
</Proposals>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Proposal
Table type	Multi-instance table
Row name	Proposal
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	priority	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AuthorityMethod	Authentication method Id	N/A	Enumeration: 1—Pre-Shared-Key 2—RSA-Signature 3—DSA-Signature Default value is 1	N/A
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds. Default value is 86400	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of proposal	N/A	String: Length:1 to 80 characters Case sensitive	

IKEv1/Keychains

This table is used to configure IKE keychain.

XML structure

```

<IKEv1>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Priority></Priority>
      <KeychainVRF></KeychainVRF>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
    </Keychain>
  </Keychains>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE keychain	N/A	Unsigned integer: • Value range:1 to 65535. Default value is 100	N/A
KeychainVRF	The VPN instance of keychain belongs to	N/A	String: Length:1 to 31 characters Case sensitive	N/A
MatchLocalAddress	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: • 1—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.

IKEv1/HostPreSharedKeys

This table is used to configure the host pre-shared key for IKE keychain.

XML structure

```

<IKEv1>
  <HostPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Host></Host>
      <KeyType></KeyType>
      <Key></Key>
    </PreSharedKey>
  </HostPreSharedKeys>
</IKEv1>

```

```

        </PreSharedKey>
    </HostPreSharedKeys>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	HostPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Host	Host name	Index	String: Length:1 to 255 characters Case sensitive	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: 1—Simple, 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/ Ipv4AddressPreSharedKeys

This table is used to configure the IPv4 address pre-shared key for IKE keychain.

XML structure

```

<IKEv1>
    <Ipv4AddressPreSharedKeys>
        <PreSharedKey>

```

```

<Keychain></Keychain>
<Ipv4Address></Ipv4Address>
<Ipv4Mask></Ipv4Mask>
<KeyType></KeyType>
<Key></Key>
</PreSharedKey>
</Ipv4AddressPreSharedKeys>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	N/A	Ipv4Address Mask	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: 1—Simple, 2—Cipher	N/A
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/ Ipv6AddressPreSharedKeys

This table is used to configure the IPv6 address pre-shared key for IKE keychain.

XML structure

```
<IKEv1>
  <Ipv6AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <KeyType></KeyType>
    </PreSharedKey>
  </Ipv6AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	N/A	Unsigned integer: Value range:0 to 128, in seconds.	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: 1—Simple, 2—Cipher	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Key	The value of pre-shared key	N/A	According to the type of decision in length. Plaintext key string Length:1 to 128 characters Or Ciphertext key string Length:1 to 201 characters	N/A

IKEv1/Ipv4AddressGroup

This table is used to configure an IKE IPv4 address pool for assigning IPv4 addresses to remote peers.

XML structure

```

<IKEv1>
  <Ipv4AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <IPv4Mask></IPv4Mask>
    </AddressGroup>
  </Ipv4AddressGroup>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the IPv4 address group	Index	String: case-insensitive. Length:1 to 63 characters.	N/A
StartIPAddr	Start IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.	StartIPAddr can not be higher than EndIPAddr. StartIPAddr and EndIPAddr must be configured together when the instance does not exist.
EndIPAddr	End IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.	N/A
IPv4Mask	Mask of the IPv4 address	N/A	IPv4: String, dotted decimal notation.	N/A

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IKEv1

IKEv1/GlobalConfiguration

This table displays IKE global configuration information.

XML structure

```
<IKEv1>
  <GlobalConfiguration>
    <DPD>
      <Mode></Mode>
      <Interval></Interval>
      <Retry></Retry>
    </DPD>
    <Keepalive>
      <Interval></Interval>
      <Timeout></Timeout>
    </Keepalive>
    <SignIDfromCert></SignIDfromCert>
    <InvalidSPIRecovery></InvalidSPIRecovery>
    <NatKeepaliveInterval></NatKeepaliveInterval>
    <IKESACountLimit>
      <EstablishLimit></EstablishLimit>
      <NegotiateLimit></NegotiateLimit>
    </IKESACountLimit>
    <LocalID>
      <Type></Type>
      <IpAddress></IpAddress>
      <Value></Value>
    </LocalID>
  </GlobalConfiguration>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • 1—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
Keepalive	Global keepalive configuration	Data structure	Members include: • Interval • Timeout	N/A
Interval	Keepalive Interval	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
Timeout	Keepalive Timeout	N/A	Unsigned integer: Value range:20 to 28800, in seconds.	N/A
SignIDfromCert	Digital signature authentication , If enable get the identity of the local end from the certificate	N/A	Boolean: • true—Enable. • false—Disable. Default value is false.	N/A
InvalidSPIRecovery	If enable Re-establish an IKE SA upon an invalid-SPI event	N/A	Boolean: • true—Enable. • false—Disable. Default value is false.	N/A
NatKeepaliveInterval	NAT keepalive Interval	N/A	Unsigned integer: Value range:5 to 300, in seconds. Default value is 20	N/A
IKESACountLimit	Limit the number of IKE SA in established and in negotiation	Data structure	Members include: • EstablishLimit • NegotiateLimit	N/A
EstablishLimit	Limit the maximum number of established SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NegotiateLimit	Limit the maximum number of negotiation SAs	N/A	Unsigned integer: Value range:1 to 99999	N/A
LocalID	The identity of the local end	Data structure	Members include: - Type - IpAddress - Value	N/A
Type	The type of the identity	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—FQDN 4—User-FQDN 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.

IKEv1/Profiles

This table displays IKE profiles information.

XML structure

```

<IKEv1>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
      <Mode></Mode>
      <ProposalList>
        <ProposalItem></ProposalItem>
      </ProposalList>
      <KeychainList>
        <KeychainItem></KeychainItem>
      </KeychainList>
      <CertificateDomainList>
        <DomainItem></DomainItem>
      </CertificateDomainList>
      <CertACPList>

```

```

    <CertACPItem></CertACPItem>
  </CertACPList>
  <MatchRemoteFQDNList>
    <FQDNItem></FQDNItem>
  </MatchRemoteFQDNList>
  <MatchRemoteUserFQDNList>
    <UserFQDNItem></UserFQDNItem>
  </MatchRemoteUserFQDNList>
  <LocalID>
  <Type></Type>
  <IpAddress></IpAddress>
  <Value></Value>
</LocalID>
  <MatchLocalAddr>
    <AddressType></AddressType>
    <IpAddress></IpAddress>
    <VRF></VRF>
    <Interface></Interface>
  </MatchLocalAddr>
  <DPD>
    <Mode></Mode>
    <Interval></Interval>
    <Retry></Retry>
  </DPD>
  <InsideVRF></InsideVRF>
  <ClientXauth></ClientXauth>
  <AAAAAuthorization>
    <Domain></Domain>
    <UserName></UserName>
  </AAAAAuthorization>
</Profile>
</Profiles>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE profile	N/A	Unsigned integer: Value range:1 to 65535 Default value is 100.	N/A
Mode	The phase 1 negotiation mode	N/A	Enumeration: 1—Main 2—Aggressive Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: ProposalItem	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 ProposalItem in ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: KeychainItem	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: DomainItem	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 KeychainItem in KeychainList.
CertACPList	Reference a PKI certificate access control policy for the IKE profile	Data structure	Members include: CertACPIItem	N/A
CertACPIItem	The Name of PKI certificate access control policy	N/A	String: Length:1 to 31 characters Case insensitive.	Contains unrestricted CertACPIItem in CertACPList.
MatchRemoteFQDNList	Configure a rule of match the peer FQDN information for the IKE profile	Data structure	Members include: FQDNItem	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDN List.
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: UserFQDNItem	N/A
UserFQDNItem	The peer user FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted UserFQDNItem in MatchRemoteUserFQDNList.
LocalID	The identity of the local end	Data structure	Members include: - Type - IpAddress - Value	N/A
Type	The type of the identity	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—FQDN 4—User-FQDN 5—DN	N/A
IpAddress	The value of address when the identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
MatchLocalAddress	Match the local address	Data structure	Members include: - AddressType - IpAddress - VRF - Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: 1—Ipv4Address, 2—Ipv6Address 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface coexist with IpAddress. can't with
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: • Mode • Interval • Retry	N/A
Mode	The mode of DPD	N/A	Enumeration: • 1—On-demand, • 2—Periodic	N/A
Interval	Interval time of triggering DPD	N/A	Unsigned integer: Value range:1 to 300, in seconds.	N/A
Retry	The DPD retry interval	N/A	Unsigned integer: Value range:1 to 60, in seconds. Default value is 5.	N/A
InsideVRF	The inside VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	N/A
ClientXauth	Whether the client authentication is enabled.	N/A	Boolean: • true • false	N/A
AAAAutho rization	AAA authentication	N/A	Members include: • Domain • UserName	N/A
Domain	ISP domain name	N/A	String: case-insensitive. Length:1 to 255 characters.	N/A
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	N/A

IKEv1/MatchRemoteIpv4Address

This table displays match remote identity IPv4 address information

XML structure

```

<IKEv1>
  <MatchRemoteIpv4Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
    </RemoteID>
  </MatchRemoteIpv4Address>
</IKEv1>

```

```

    <VRF></VRF>
  </RemoteID>
</MatchRemoteIpv4Address>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	Index	Ipv4Address mask	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/MatchRemoteIpv6Address

This table displays match remote identity IPv6 address information

XML structure

```

<IKEv1>
  <MatchRemoteIpv6Address>
    <RemoteID>
      <Profile></Profile>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv1>

```


Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv6Address
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of IPv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of IPv6 address	Index	Unsigned integer: Value range:0 to 128, in seconds.	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv4Range

This table displays match remote identity IPv4 range information

XML structure

```
<IKEv1>
  <MatchRemoteIpv4Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv4Address></BeginIpv4Address>
      <EndIpv4Address></EndIpv4Address>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv4Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	MatchRemoteIpv4Range
Table type	Multi-instance table
Row name	RemoteID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv4Address	Start IPv4 Address	Index	Ipv4Address	N/A
EndIpv4Address	End IPv4 Address	Index	Ipv4Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/ MatchRemoteIpv6Range

This table displays match remote identity IPv6 range information

XML structure

```
<IKEv1>
  <MatchRemoteIpv6Range>
    <RemoteID>
      <Profile></Profile>
      <BeginIpv6Address></BeginIpv6Address>
      <EndIpv6Address></EndIpv6Address>
      <VRF></VRF>
    </RemoteID>
  </MatchRemoteIpv6Range>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1

Item	Description
Table name	MatchRemotelyv6Range
Table type	Multi-instance table
Row name	RemotelyID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	Index	String: Length:1 to 63 characters Case insensitive	N/A
BeginIpv6Address	Start IPv6 Address	Index	Ipv6Address	N/A
EndIpv6Address	End IPv6 Address	Index	Ipv6Address	N/A
VRF	The vpn instance which the address is belonged to.	Index	String: Length:0 to 31 characters Case sensitive.	It's a public network when VRF is a null string.

IKEv1/Proposals

This table displays IKE proposals information

XML structure

```

<IKEv1>
  <Proposals>
    <Proposal>
      <Priority></Priority>
      <AuthorityMethod></AuthorityMethod>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <DHID></DHID>
      <SADuration></SADuration>
      <Description></Description>
    </Proposal>
  </Proposals>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Proposals
Table type	Multi-instance table
Row name	Proposal
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	priority	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AuthorityMethod	Authentication method Id	N/A	Enumeration: • 1—Pre-Shared-Key • 2—RSA-Signature • 3—DSA-Signature Default value is 1	N/A
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer.	See table IKECapabilities for supported Authentication algorithm.
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer.	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds. Default value is 86400	N/A
Description	Description of proposal	N/A	String: Length:1 to 80 characters Case sensitive	

IKEv1/Keychains

This table displays IKE keychains information

XML structure

```
<IKEv1>
  <Keychains>
    <Keychain>
      <Name></Name>
      <Priority></Priority>
      <KeychainVRF></KeychainVRF>
      <MatchLocalAddr>
        <AddressType></AddressType>
        <IpAddress></IpAddress>
        <VRF></VRF>
        <Interface></Interface>
      </MatchLocalAddr>
    </Keychain>
  </Keychains>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Keychains
Table type	Multi-instance table
Row name	Keychain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Priority	The priority of IKE keychain	N/A	Unsigned integer: Value range:1 to 65535. Default value is 100	N/A
KeychainVRF	The VPN instance of keychain belongs to	N/A	String: Length:1 to 31 characters Case sensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MatchLocalAddress	Match the local address	Data structure	Members include: • AddressType • IpAddress • VRF • Interface	N/A
AddressType	The type of IP address	N/A	Enumeration: • 1—Ipv4Address, • 2—Ipv6Address • 3—Interface	N/A
IpAddress	The value of address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the AddressType
VRF	The VPN instance	N/A	String: Length:1 to 31 characters Case sensitive.	VRF can only coexist with IpAddress.
Interface	The name of interface	N/A	String Case insensitive.	Interface can't coexist with IpAddress.

IKEv1/HostPreSharedKeys

This table displays host pre-shared-keys information for IKE keychain

XML structure

```

<IKEv1>
  <HostPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
    <Host></Host>
    </PreSharedKey>
  </HostPreSharedKeys>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	HostPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Host	Host name	Index	String: Length:1 to 255 characters Case sensitive	N/A

IKEv1/ Ipv4AddressPreSharedKeys

This table displays IPv4 address presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv4AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
    </PreSharedKey>
  </Ipv4AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv4Address	The value of IPv4 address	Index	Ipv4Address	N/A
Ipv4Mask	The mask of IPv4 address	N/A	Ipv4Address Mask	N/A

IKEv1/ Ipv6AddressPreSharedKeys

This table displays IPv6 address presharedkeys information for IKE keychain

XML structure

```
<IKEv1>
  <Ipv6AddressPreSharedKeys>
    <PreSharedKey>
      <Keychain></Keychain>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </PreSharedKey>
  </Ipv6AddressPreSharedKeys>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv6AddressPreSharedKeys
Table type	Multi-instance table
Row name	PreSharedKey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Keychain	Name of IKE keychain	Index	String: Length:1 to 63 characters Case insensitive	N/A
Ipv6Address	The value of Ipv6 address	Index	Ipv6Address	N/A
Ipv6PrefixLength	The prefix length of Ipv6 address	N/A	Unsigned integer: Value range:0 to 128, in seconds.	N/A

IKEv1/DefaultProposal

This table displays default IKE proposal information.

XML structure

```
<IKEv1>
  <DefaultProposal>
    <AuthorityMethod></AuthorityMethod>
    <AuthorityAlg></AuthorityAlg>
    <EncryptionAlg></EncryptionAlg>
    <DHID></DHID>
    <SADuration></SADuration>
  </DefaultProposal>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	DefaultProposal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorityMethod	Authentication method Id for the IKE Proposal	N/A	Unsigned integer.	N/A
AuthorityAlg	Authentication algorithm Id for the IKE Proposal	N/A	Unsigned integer.	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id for the IKE Proposal	N/A	Unsigned integer.	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.	See table IKECapabilities for supported Diffie-Hellman group
SADuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A

IKEv1/IKESAs

This table displays IKE SA information.

XML structure

```

<IKEv1>
  <IKESAs>
    <IKESA>
      <ConnectionID></ConnectionID>
      <OutsideVRF></OutsideVRF>
      <InsideVRF></InsideVRF>
      <Profile></Profile>
      <Initiator></Initiator>
      <LocalID>
        <Type></Type>
        <IpAddress></IpAddress>
        <Value></Value>
      </LocalID>
      <RemoteID>

```

```

    <Type></Type>
    <IpAddress></IpAddress>
    <Value></Value>
  </RemoteID>
  <RemoteIpAddress></RemoteIpAddress>
  <LocalIpAddress></LocalIpAddress>
  <AuthorityMethod></AuthorityMethod>
  <AuthorityAlg></AuthorityAlg>
  <EncryptionAlg></EncryptionAlg>
  <DHID></DHID>
  <ExchangeMode></ExchangeMode>
  <IsNATTraversal></IsNATTraversal>
  <SADuration></SADuration>
  <RemainingSADuration></RemainingSADuration>
  <Flag></Flag>
  <DOI></DOI>
</IKESA>
</IKESAs>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	IKESAs
Table type	Multi-instance table
Row name	IKESA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionID	ConnectionID of IKE SA	Index	Unsigned integer.	N/A
OutsideVRF	Outbound VRF	N/A	String: Length:1 to 31 characters Case sensitive	N/A
InsideVRF	Inbound VRF	N/A	String: Length:1 to 31 characters Case sensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Profile	Name of IKE profile	N/A	String: Length:1 to 63 characters Case insensitive	N/A
Initiator	If Local gateway be the initiator	Data structure	Boolean: • true—initiator. • false—response.	N/A
LocalID	The identity of the local end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the local identity	N/A	Enumeration: • 1—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the local identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the local identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
RemoteID	The identity of the peer end	Data structure	Members include: • Type • IpAddress • Value	N/A
Type	The type of the peer identity	N/A	Enumeration: • 1—Ipv4Address, • 2—Ipv6Address • 3—FQDN • 4—User-FQDN • 5—DN	N/A
IpAddress	The value of address when the peer identity is IP address	N/A	Ipv4Address or Ipv6 Address	The value is whether IPv4 address or IPv6 address lies on the type of the identity.
Value	The value when the peer identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.

Column name	Column description	Column type	Data type and restrictions	Remarks
RemoteIpAddress	IP address of peer gateway	N/A	Ipv4Address or Ipv6 Address	N/A
LocalIpAddress	IP address of local gateway	N/A	Ipv4Address or Ipv6 Address	N/A
AuthorityMethod	The value when the identity isn't IP address	N/A	String: Length:0 to 255 characters Case sensitive.	If the type is FQDN, it's FQDN name; if the type is User-FQDN, it's User-FQDN name; if the type is DN, it's none.
AuthorityAlg	Authentication algorithm Id	N/A	Unsigned integer. Authentication algorithm Id	See table IKECapabilities for supported Authentication algorithm
EncryptionAlg	Encryption algorithm Id	N/A	Unsigned integer. Encryption algorithm Id	See table IKECapabilities for supported Encryption algorithm
DHID	Diffie-Hellman group ID	N/A	Unsigned integer.. Diffie-Hellman group ID	See table IKECapabilities for supported Diffie-Hellman group
ExchangeMode	Negotiation mode	N/A	Enumeration: 1—Main. 2—Aggressive	N/A
IsNATTraversal	UDP encapsulation used for NAT traversal	N/A	Boolean: - true—Need traversal. - false—non-essential.	N/A
SADuration	IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A
RemainingSADuration	Remaining IKE SA lifetime	N/A	Unsigned integer. Value range: 60 to 604800. in seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Flag	Flag of SA	N/A	Unsigned integer.	0x00000001 RD (READY), which means the SA has been established 0x00000002 ST (STAYALIVE), which means this end is the initiator of the tunnel negotiation. 0x00000004 RL (REPLACED), which means the SA has been replaced by a new one and will be deleted later. 0x00000008 FD (FADING), which means the SA is in use, but it is about to expire and will be deleted soon. 0x80000000 Unknown, which means The SA status is Unkown.
DOI	Domain of interpretation which SA belong	N/A	Enumeration: • 1—IPsec. • 2—GDOI	N/A

IKEv1/GlobalStatistics

This table displays IKE global statistics information.

XML structure

```

<IKEv1>
  <GlobalStatistics>
    <ActiveTunnels></ActiveTunnels>
    <InitTunnels></InitTunnels>
    <InitTunnelFails></InitTunnelFails>
    <RespTunnels></RespTunnels>
    <RespTunnelFails></RespTunnelFails>
    <InOctets></InOctets>
    <OutOctets></OutOctets>
    <InPkts></InPkts>
    <OutPkts></OutPkts>
    <InP2Exchanges></InP2Exchanges>
  </GlobalStatistics>
</IKEv1>

```

```

<OutP2Exchanges></OutP2Exchanges>
<InP2ExchangeRejects></InP2ExchangeRejects>
<OutP2ExchangeRejects></OutP2ExchangeRejects>
<InP2SADelRequests></InP2SADelRequests>
<OutP2SADelRequests></OutP2SADelRequests>
<InNotifys></InNotifys>
<OutNotifys></OutNotifys>
<InDropPkts></InDropPkts>
<OutDropPkts></OutDropPkts>
<DropPktsDetails>
  <AuthFails></AuthFails>
  <NoSAFails></NoSAFails>
  <InvalidCookieFails></InvalidCookieFails>
  <AttrNotSuppFails></AttrNotSuppFails>
  <NoProposalChosenFails></NoProposalChosenFails>
  <UnsuppExchTypeFails></UnsuppExchTypeFails>
  <InvalidIDFails></InvalidIDFails>
  <InvalidPropFails></InvalidPropFails>
  <CertTypeUnsuppFails></CertTypeUnsuppFails>
  <InvalidCertAuthFails></InvalidCertAuthFails>
  <InvalidSignFails></InvalidSignFails>
  <CertUnavailableFails></CertUnavailableFails>
</DropPktsDetails>
</GlobalStatistics>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	GlobalStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActiveTunnels	Number of active tunnel in the first stage	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InitTunnels	Number of as the initiator for the successful establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InitTunnelFails	Number of as the initiator did not successfully establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RespTunnels	Number of as a response to successful establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RespTunnelFails	Number of as the response did not successfully establishment of IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InOctets	Number of the recived Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutOctets	Number of the sent Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InPkts	Number of recived packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutPkts	Number of sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2Exchanges	Number of recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2Exchanges	Number of sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2ExchangeRejects	Number of dropped recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutP2ExchangeRejects	Number of dropped sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2SADelRequests	Number of received request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2SADelRequests	Number of received request of SA in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InNotifys	Number of received notify news	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A
OutNotifys	Number of sent notify news	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A
InDropPkts	Number of dropped received packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutDropPkts	Number of dropped sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
DropPktsDetails	Number of dropped packets due to authentication failure	Data structure	Members include: • AuthFails • NoSAFails • InvalidCookieFails • AttrNotSuppFails • NoProposalChosenFails • UnsuppExchTypeFails • InvalidIDFails • InvalidPropFails • CertTypeUnsuppFails • InvalidCertAuthFails • InvalidSignFails • CertUnavailableFails	N/A
AuthFails	The reason for the failure of building IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
NoSAFails	Number of lack of available IKE SA in the negotiate process	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InvalidCookieFails	Number of dropped packets due to Invalid cookie	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AttrNotSuppFails	Number of dropped packets due to Nonsupport transform load attribute	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
NoProposalChosenFails	Number of dropped packets due to Without the option proposal	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
UnsuppExchTypeFails	Number of dropped packets due to Nonsupport exchange type	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InvalidIDFails	Number of dropped packets due to Invalid ID load	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InvalidPropFails	Number of dropped packets due to Invalid proposal	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
CertTypeUnsuppFails	Number of dropped packets due to Nonsupport certificate type	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InvalidCertAuthFails	Number of dropped packets due to Invalid CA	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InvalidSignFails	Number of dropped packets due to Invalid signature	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
CertUnavailableFails	Number of dropped packets due to cannot obtain certificate	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

IKEv1/TunnelsStatistics

This table displays IKE tunnel statistics information.

XML structure

```
<IKEv1>
  <TunnelsStatistics>
    <Statistics>
      <TunnelID></TunnelID>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
      <InPkts></InPkts>
      <OutPkts></OutPkts>
      <InP2Exchanges></InP2Exchanges>
      <OutP2Exchanges></OutP2Exchanges>
      <InP2ExchangeRejects></InP2ExchangeRejects>
      <OutP2ExchangeRejects></OutP2ExchangeRejects>
      <InP2SADelRequests></InP2SADelRequests>
      <OutP2SADelRequests></OutP2SADelRequests>
      <InP1SADelRequests></InP1SADelRequests>
      <OutP1SADelRequests></OutP1SADelRequests>
      <InNotifys></InNotifys>
      <OutNotifys></OutNotifys>
      <InDropPkts></InDropPkts>
      <OutDropPkts></OutDropPkts>
    </Statistics>
  </TunnelsStatistics>
</IKEv1>
```

Table description

Item	Description
Feature name	IKEv1
Table name	TunnelsStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IKE tunnel ID	Index	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A
InOctets	Number of the recived Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutOctets	Number of the sent Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InPkts	Number of recived packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutPkts	Number of sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2Exchanges	Number of recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2Exchanges	Number of sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2ExchangeRejects	Number of dropped recived exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2ExchangeRejects	Number of dropped sent exchanges in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP2SADelRequests	Number of recived request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2SADelRequests	Number of recived request of SA in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP1SADelRequests	Number of recived request of SA in the first stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP1SADelRequests	Number of sent request of SA in the first stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InNotifys	Number of recived notify news	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutNotifys	Number of sent notify news	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A
InDropPkts	Number of dropped received packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutDropPkts	Number of dropped sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A

IKEv1/IKECapabilities

This table displays all the algorithm capabilities that the IKE module support.

XML structure

```

<IKEv1>
  <IKECapabilities>
    <IKECapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <AlgType></AlgType>
    </IKECapability>
  </IKECapabilities>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	IKECapabilities
Table type	Multi-instance table
Row name	IKECapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	IKEv1 supports algorithm ID	Index	Positive Integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgName	IKEv1 supports algorithm name	N/A	String. Length: 1 to 255 characters. Case insensitive	N/A
AlgType	Type of algorithm	N/A	Enumeration: • 1—Diffie-Hellman group • 2—Encryption algorithm • 3—Authentication algorithm	N/A

IKEv1/Ipv4AddressGroup

This table displays IKE IPv4 address pool information.

XML structure

```

<IKEv1>
  <Ipv4AddressGroup>
    <AddressGroup>
      <GroupName></GroupName>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
      <IPv4Mask></IPv4Mask>
    </AddressGroup>
  </Ipv4AddressGroup>
</IKEv1>

```

Table description

Item	Description
Feature name	IKEv1
Table name	Ipv4AddressGroup
Table type	Multi-instance table
Row name	AddressGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the IPv4 address group	Index	String: case-insensitive. Length:1 to 63 characters.
StartIPAddr	Start IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.
EndIPAddr	End IPv4 address of the group	N/A	IPv4: String, dotted decimal notation.
IPv4Mask	Mask of the IPv4 address	N/A	IPv4: String, dotted decimal notation.

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IPCIM

IPCIM/IpSourceBindingInterface

This table contains Ip Source Binding table information.

XML structure

```
<IPCIM>
  <IpSourceBindingInterface>
    <SourceBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
    </SourceBinding>
  </IpSourceBindingInterface>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpSourceBindingInterface
Table type	Multi-instance table
Row name	SourceBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	0.0.0.0 means do not specify IPv4 address. Either Ipv4Address or MacAddress must be specified.
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. 00-00-00-00-00-00 means do not specify MAC address. Either Ipv4Address or MacAddress must be specified.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means do not specify VLAN ID.

IPCIM/IpVerifySource

This table contains Ip Verify Source table information.

XML structure

```

<IPCIM>
  <IpVerifySource>
    <VerifySource>
      <IfIndex></IfIndex>
      <VerifyIpAddress></VerifyIpAddress>
      <VerifyMacAddress></VerifyMacAddress>
    </VerifySource>
  </IpVerifySource>
</IPCIM>

```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifySource
Table type	Multi-instance table
Row name	VerifySource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
VerifyIpAddress	Whether filter incoming packets by source IPv4 addresses or not.	N/A	Boolean: true false	N/A
VerifyMacAddress	Whether filter incoming packets by source MAC addresses or not.	N/A	Boolean: true false	N/A

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XML structure	2
Table description	2
Columns	2

IPCIM

IPCIM/IpSourceBindingInterface

This table contains Ip Source Binding table information.

XML structure

```
<IPCIM>
  <IpSourceBindingInterface>
    <SourceBinding>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
    </SourceBinding>
  </IpSourceBindingInterface>
</IPCIM>
```

Table description

Item	Description
Feature name	IPCIM
Table name	IpSourceBindingInterface
Table type	Multi-instance table
Row name	SourceBinding
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	N/A
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	0.0.0.0 means do not specify IPv4 address.
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. 00-00-00-00-00-00 means do not specify MAC address.

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 0 to 4094.	0 means do not specify VLAN ID.

IPCIM/IpVerifySource

This table contains Ip Verify Source table information.

XML structure

```

<IPCIM>
  <IpVerifySource>
    <VerifySource>
      <IfIndex></IfIndex>
      <VerifyIpAddress></VerifyIpAddress>
      <VerifyMacAddress></VerifyMacAddress>
    </VerifySource>
  </IpVerifySource>
</IPCIM>

```

Table description

Item	Description
Feature name	IPCIM
Table name	IpVerifySource
Table type	Multi-instance table
Row name	VerifySource
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	N/A
VerifyIpAddress	Whether filter incoming packets by source IPv4 addresses or not.	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VerifyMacAddress	Whether filter incoming packets by source MAC addresses or not.	N/A	Boolean: true false	N/A

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Columns	30
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IPoE

IPoE/IPoESessionTotalStatistics

This table contains IPoE total session statistics accessed by bind authentication method.

XML structure

```
<IPoE>
  <IPoESessionTotalStatistics>
    <SessionTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </SessionTotalStatistics>
  </IPoESessionTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESessionTotalStatistics
Table type	Multi-instance table
Row name	SessionTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sessions.			
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEWebSessionTotalStatistics

This table contains IPoE total session statistics accessed by web authentication method.

XML structure

```

<IPoE>
  <IPoEWebSessionTotalStatistics>
    <WebSessionTotalStatistics>
      <IpType></IpType>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </WebSessionTotalStatistics>
  </IPoEWebSessionTotalStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE

Table name	IPoEWebSessionTotalStatistics
Table type	Multi-instance table
Row name	WebSessionTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
AuthPhase	Authentication phase.	Index	Enumeration: • 1—Web preauth • 2—Web	Web preauth or Web
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoESessionStatistics

This table contains IPoE session statistics accessed by bind authentication method.

XML structure

```

<IPoE>
  <IPoESessionStatistics>
    <SessionStatistics>

```

```

    <IpType></IpType>
    <Interface></Interface>
    <TotalNum></TotalNum>
    <InitNum></InitNum>
    <AuthingNum></AuthingNum>
    <AuthfailNum></AuthfailNum>
    <AuthpassNum></AuthpassNum>
    <AssignIPNum></AssignIPNum>
    <OnlineNum></OnlineNum>
    <BackupNum></BackupNum>
  </SessionStatistics>
</IPoESessionStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESessionStatistics
Table type	Multi-instance table
Row name	SessionStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: 0—IPv4 1—IPv6	IPv4 or IPv6
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEWebSessionStatistics

This table contains IPoE session statistics accessed by web authentication method.

XML structure

```

<IPoE>
  <IPoEWebSessionStatistics>
    <WebSessionStatistics>
      <IpType></IpType>
      <Interface></Interface>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </WebSessionStatistics>
  </IPoEWebSessionStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEWebSessionStatistics
Table type	Multi-instance table

Row name	WebSessionStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
AuthPhase	Authentication phase.	Index	Enumeration: • 1—Web preauth • 2—Web	Web preauth or Web
TotalNum	Total number of users.	N/A	Unsigned integer.	N/A
InitNum	Number of users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online users.	N/A	Unsigned integer.	N/A
BackupNum	Number of users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEOfflineTotalStatistics

This table contains IPoE total offline session statistics accessed by bind authentication method.

XML structure

```
<IPoE>
  <IPoEOfflineTotalStatistics>
    <OfflineTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <UserRequestNum></UserRequestNum>
      <DHCPExpireNum></DHCPExpireNum>
      <AAExpireNum></AAExpireNum>
      <CommandCutNum></CommandCutNum>
      <AAATerminateNum></AAATerminateNum>
      <AuthenFailNum></AuthenFailNum>
      <AuthorFailNum></AuthorFailNum>
      <IdleTimeoutNum></IdleTimeoutNum>
      <DetectFailNum></DetectFailNum>
      <NoResourceNum></NoResourceNum>
      <IfDownNum></IfDownNum>
      <IfShutdownNum></IfShutdownNum>
      <VSRPEventNum></VSRPEventNum>
      <DHCPNotifyNum></DHCPNotifyNum>
      <UserGroupNotifyNum></UserGroupNotifyNum>
      <NATNotifyNum></NATNotifyNum>
      <OtherNum></OtherNum>
    </OfflineTotalStatistics>
  </IPoEOfflineTotalStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEOfflineTotalStatistics
Table type	Multi-instance table
Row name	OfflineTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
TotalNum	Total number of offline users.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserRequestNum	Number of users requesting to go offline.	N/A	Unsigned integer.	N/A
DHCPExpireNum	Number of users with expired DHCP leases.	N/A	Unsigned integer.	N/A
AAAExpireNum	Number of users with expired AAA leases.	N/A	Unsigned integer.	N/A
CommandCutNum	Number of users logged out by commands.	N/A	Unsigned integer.	N/A
AAATerminateNum	Number of users logged out by AAA.	N/A	Unsigned integer.	N/A
AuthenFailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthorFailNum	Number of users who failed authorization.	N/A	Unsigned integer.	N/A
IdleTimeoutNum	Number of users with an expired idle timeout timer.	N/A	Unsigned integer.	N/A
DetectFailNum	Number of users who failed online detection.	N/A	Unsigned integer.	N/A
NoResourceNum	Number of users with insufficient hardware resources.	N/A	Unsigned integer.	N/A
IfDownNum	Number of users on an interface that went down.	N/A	Unsigned integer.	N/A
IfShutdownNum	Number of users on an interface that was shut down.	N/A	Unsigned integer.	N/A
VSRPEventNum	Number of users disconnected by the VSRP event.	N/A	Unsigned integer.	N/A
DHCPNotifyNum	Number of users disconnected by DHCP.	N/A	Unsigned integer.	N/A
UserGroupNotifyNum	Number of users disconnected by User Group.	N/A	Unsigned integer.	N/A
NATNotifyNum	Number of users disconnected by NAT.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OtherNum	Number of users disconnected from the network because of unknown causes.	N/A	Unsigned integer.	N/A

IPoE/IPoEWebOfflineTotalStatistics

This table contains IPoE total offline session statistics accessed by web authentication method.

XML structure

```

<IPoE>
  <IPoEWebOfflineTotalStatistics>
    <WebOfflineTotalStatistics>
      <IpType></IpType>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <UserRequestNum></UserRequestNum>
      <DHCPExpireNum></DHCPExpireNum>
      <AAExpireNum></AAExpireNum>
      <CommandCutNum></CommandCutNum>
      <AAATerminateNum></AAATerminateNum>
      <AuthenFailNum></AuthenFailNum>
      <AuthorFailNum></AuthorFailNum>
      <IdleTimeoutNum></IdleTimeoutNum>
      <DetectFailNum></DetectFailNum>
      <NoResourceNum></NoResourceNum>
      <IfDownNum></IfDownNum>
      <IfShutdownNum></IfShutdownNum>
      <VSRPEventNum></VSRPEventNum>
      <DHCPNotifyNum></DHCPNotifyNum>
      <UserGroupNotifyNum></UserGroupNotifyNum>
      <NATNotifyNum></NATNotifyNum>
      <PortalNotifyNum></PortalNotifyNum>
      <OtherNum></OtherNum>
    </WebOfflineTotalStatistics>
  </IPoEWebOfflineTotalStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEWebOfflineTotalStatistics

Table type	Multi-instance table
Row name	WebOfflineTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
AuthPhase	Authentication phase.	Index	Enumeration: • 1—Web preauth • 2—Web	Web preauth or Web
TotalNum	Total number of offline users.	N/A	Unsigned integer.	N/A
UserRequestNum	Number of users requesting to go offline.	N/A	Unsigned integer.	N/A
DHCPExpireNum	Number of users with expired DHCP leases.	N/A	Unsigned integer.	N/A
AAAEscapeNum	Number of users with expired AAA leases.	N/A	Unsigned integer.	N/A
CommandCutNum	Number of users logged out by commands.	N/A	Unsigned integer.	N/A
AAATerminateNum	Number of users logged out by AAA.	N/A	Unsigned integer.	N/A
AuthenFailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthorFailNum	Number of users who failed authorization.	N/A	Unsigned integer.	N/A
IdleTimeoutNum	Number of users with an expired idle timeout timer.	N/A	Unsigned integer.	N/A
DetectFailNum	Number of users who failed online detection.	N/A	Unsigned integer.	N/A
NoResourceNum	Number of users with insufficient hardware resources.	N/A	Unsigned integer.	N/A
IfDownNum	Number of users on an interface that went down.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfShutdownNum	Number of users on an interface that was shut down.	N/A	Unsigned integer.	N/A
VSRPEventNum	Number of users disconnected by the VSRP event.	N/A	Unsigned integer.	N/A
DHCPNotifyNum	Number of users disconnected by DHCP.	N/A	Unsigned integer.	N/A
UserGroupNotifyNum	Number of users disconnected by User Group.	N/A	Unsigned integer.	N/A
NATNotifyNum	Number of users disconnected by NAT.	N/A	Unsigned integer.	N/A
PortalNotifyNum	Number of users disconnected by Portal.	N/A	Unsigned integer.	N/A
OtherNum	Number of users disconnected from the network because of unknown causes.	N/A	Unsigned integer.	N/A

IPoE/IPoEOfflineStatistics

This table contains IPoE offline session statistics accessed by bind authentication method.

XML structure

```

<IPoE>
  <IPoEOfflineStatistics>
    <OfflineStatistics>
      <IpType></IpType>
      <Interface></Interface>
      <TotalNum></TotalNum>
      <UserRequestNum></UserRequestNum>
      <DHCPExpireNum></DHCPExpireNum>
      <AAExpireNum></AAExpireNum>
      <CommandCutNum></CommandCutNum>
      <AAATerminateNum></AAATerminateNum>
      <AuthenFailNum></AuthenFailNum>
      <AuthorFailNum></AuthorFailNum>
      <IdleTimeoutNum></IdleTimeoutNum>
      <DetectFailNum></DetectFailNum>
      <NoResourceNum></NoResourceNum>
      <IfDownNum></IfDownNum>
    
```

```

<IfShutdownNum></IfShutdownNum>
<VSRPEventNum></VSRPEventNum>
<DHCPNotifyNum></DHCPNotifyNum>
<UserGroupNotifyNum></UserGroupNotifyNum>
<NATNotifyNum></NATNotifyNum>
<OtherNum></OtherNum>
</OfflineStatistics>
</IPoEOfflineStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEOfflineStatistics
Table type	Multi-instance table
Row name	OfflineStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: 0—IPv4 1—IPv6	IPv4 or IPv6
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TotalNum	Total number of offline users.	N/A	Unsigned integer.	N/A
UserRequestNum	Number of users requesting to go offline.	N/A	Unsigned integer.	N/A
DHCPExpireNum	Number of users with expired DHCP leases.	N/A	Unsigned integer.	N/A
AAAExpireNum	Number of users with expired AAA leases.	N/A	Unsigned integer.	N/A
CommandCutNum	Number of users logged out by	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	commands.			
AAATerminateNum	Number of users logged out by AAA.	N/A	Unsigned integer.	N/A
AuthenFailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthorFailNum	Number of users who failed authorization.	N/A	Unsigned integer.	N/A
IdleTimeoutNum	Number of users with an expired idle timeout timer.	N/A	Unsigned integer.	N/A
DetectFailNum	Number of users who failed online detection.	N/A	Unsigned integer.	N/A
NoResourceNum	Number of users with insufficient hardware resources.	N/A	Unsigned integer.	N/A
IfDownNum	Number of users on an interface that went down.	N/A	Unsigned integer.	N/A
IfShutdownNum	Number of users on an interface that was shut down.	N/A	Unsigned integer.	N/A
VSRPEventNum	Number of users disconnected by the VSRP event.	N/A	Unsigned integer.	N/A
DHCPNotifyNum	Number of users disconnected by DHCP.	N/A	Unsigned integer.	N/A
UserGroupNotifyNum	Number of users disconnected by User Group.	N/A	Unsigned integer.	N/A
NATNotifyNum	Number of users disconnected by NAT.	N/A	Unsigned integer.	N/A
OtherNum	Number of users disconnected from the network because of unknown causes.	N/A	Unsigned integer.	N/A

IPoE/IPoEWebOfflineStatistics

This table contains IPoE session offline statistics accessed by web authentication method.

XML structure

```
<IPoE>
  <IPoEWebOfflineStatistics>
    <WebOfflineStatistics>
      <IpType></IpType>
      <Interface></Interface>
      <AuthPhase></AuthPhase>
      <TotalNum></TotalNum>
      <UserRequestNum></UserRequestNum>
      <DHCPExpireNum></DHCPExpireNum>
      <AAExpireNum></AAExpireNum>
      <CommandCutNum></CommandCutNum>
      <AAATerminateNum></AAATerminateNum>
      <AuthenFailNum></AuthenFailNum>
      <AuthorFailNum></AuthorFailNum>
      <IdleTimeoutNum></IdleTimeoutNum>
      <DetectFailNum></DetectFailNum>
      <NoResourceNum></NoResourceNum>
      <IfDownNum></IfDownNum>
      <IfShutdownNum></IfShutdownNum>
      <VSRPEventNum></VSRPEventNum>
      <DHCPNotifyNum></DHCPNotifyNum>
      <UserGroupNotifyNum></UserGroupNotifyNum>
      <NATNotifyNum></NATNotifyNum>
      <PortalNotifyNum></PortalNotifyNum>
      <OtherNum></OtherNum>
    </WebOfflineStatistics>
  </IPoEWebOfflineStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEWebOfflineStatistics
Table type	Multi-instance table
Row name	WebOfflineStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration:	IPv4 or IPv6

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 0—IPv4 • 1—IPv6	
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AuthPhase	Authentication phase.	Index	Enumeration: • 1—Web preauth • 2—Web	Web preauth or Web
TotalNum	Total number of offline users.	N/A	Unsigned integer.	N/A
UserRequestNum	Number of users requesting to go offline.	N/A	Unsigned integer.	N/A
DHCPExpireNum	Number of users with expired DHCP leases.	N/A	Unsigned integer.	N/A
AAAExpireNum	Number of users with expired AAA leases.	N/A	Unsigned integer.	N/A
CommandCutNum	Number of users logged out by commands.	N/A	Unsigned integer.	N/A
AAATerminateNum	Number of users logged out by AAA.	N/A	Unsigned integer.	N/A
AuthenFailNum	Number of users who failed authentication.	N/A	Unsigned integer.	N/A
AuthorFailNum	Number of users who failed authorization.	N/A	Unsigned integer.	N/A
IdleTimeoutNum	Number of users with an expired idle timeout timer.	N/A	Unsigned integer.	N/A
DetectFailNum	Number of users who failed online detection.	N/A	Unsigned integer.	N/A
NoResourceNum	Number of users with insufficient hardware resources.	N/A	Unsigned integer.	N/A
IfDownNum	Number of users on an interface that went down.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfShutdownNum	Number of users on an interface that was shut down.	N/A	Unsigned integer.	N/A
VSRPEventNum	Number of users disconnected by the VSRP event.	N/A	Unsigned integer.	N/A
DHCPNotifyNum	Number of users disconnected by DHCP.	N/A	Unsigned integer.	N/A
UserGroupNotifyNum	Number of users disconnected by User Group.	N/A	Unsigned integer.	N/A
NATNotifyNum	Number of users disconnected by NAT.	N/A	Unsigned integer.	N/A
PortalNotifyNum	Number of users disconnected by Portal.	N/A	Unsigned integer.	N/A
OtherNum	Number of users disconnected from the network because of unknown causes.	N/A	Unsigned integer.	N/A

IPoE/IPoESubnetLeaseTotalStatistics

This table contains IPoE subnet-leased total user statistics.

XML structure

```

<IPoE>
  <IPoESubnetLeaseTotalStatistics>
    <SubnetLeaseTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </SubnetLeaseTotalStatistics>
  </IPoESubnetLeaseTotalStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESubnetLeaseTotalStatistics
Table type	Multi-instance table
Row name	SubnetLeaseTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
TotalNum	Total number of subnet-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of subnet-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of subnet-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of subnet-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of subnet-leased users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of subnet-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online subnet-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of subnet-leased users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoESubnetLeaseStatistics

This table contains IPoE subnet-leased user statistics.

XML structure

```
<IPoE>
  <IPoESubnetLeaseStatistics>
    <SubnetLeaseStatistics>
      <IpType></IpType>
      <Interface></Interface>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </SubnetLeaseStatistics>
  </IPoESubnetLeaseStatistics>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoESubnetLeaseStatistics
Table type	Multi-instance table
Row name	SubnetLeaseStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type.	Index	Enumeration: • 0—IPv4 • 1—IPv6	IPv4 or IPv6
Interface	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML

Column name	Column description	Column type	Data type and restrictions	Remarks
				API Configuration Reference.
TotalNum	Total number of subnet-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of subnet-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of subnet-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of subnet-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of subnet-leased users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of subnet-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online subnet-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of subnet-leased users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEIfleaseTotalStatistics

This table contains IPoE interface-leased total user statistics.

XML structure

```

<IPoE>
  <IPoEIfleaseTotalStatistics>
    <IfleaseTotalStatistics>
      <IpType></IpType>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
    
```

```

    <OnlineNum></OnlineNum>
    <BackupNum></BackupNum>
  </IfleaseTotalStatistics>
</IPoEIfleaseTotalStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEIfleaseTotalStatistics
Table type	Multi-instance table
Row name	IfleaseTotalStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type	Index	Enumeration: 0—IPv4 1—IPv6	IPv4 or IPv6
TotalNum	Total number of interface-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of interface-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of interface-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of interface-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of interface-leased users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of interface-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online interface-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface-leased users whose information was backed up.			

IPoE/IPoEIfleaseStatistics

This table contains IPoE interface-leased user statistics.

XML structure

```

<IPoE>
  <IPoEIfleaseStatistics>
    <IfleaseStatistics>
      <IpType></IpType>
      <Interface></Interface>
      <TotalNum></TotalNum>
      <InitNum></InitNum>
      <AuthingNum></AuthingNum>
      <AuthfailNum></AuthfailNum>
      <AuthpassNum></AuthpassNum>
      <AssignIPNum></AssignIPNum>
      <OnlineNum></OnlineNum>
      <BackupNum></BackupNum>
    </IfleaseStatistics>
  </IPoEIfleaseStatistics>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEIfleaseStatistics
Table type	Multi-instance table
Row name	IfleaseStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type	Index	Enumeration: 0—IPv4 1—IPv6	IPv4 or IPv6

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
TotalNum	Total number of interface-leased users.	N/A	Unsigned integer.	N/A
InitNum	Number of interface-leased users who initiated sessions.	N/A	Unsigned integer.	N/A
AuthingNum	Number of interface-leased users being authenticated.	N/A	Unsigned integer.	N/A
AuthfailNum	Number of interface-leased users who failed authentication.	N/A	Unsigned integer.	N/A
AuthpassNum	Number of interface-leased users who passed authentication.	N/A	Unsigned integer.	N/A
AssignIPNum	Number of interface-leased users who have IP addresses.	N/A	Unsigned integer.	N/A
OnlineNum	Number of online interface-leased users.	N/A	Unsigned integer.	N/A
BackupNum	Number of interface-leased users whose information was backed up.	N/A	Unsigned integer.	N/A

IPoE/IPoEIfleaseSession

This table contains IPoE interface-leased sessions.

XML structure

```

<IPoE>
  <IPoEIfleaseSession>
    <IfleaseSession>
      <IpType></IpType>
    
```

```

<Interface></Interface>
<UserName></UserName>
<VPNInstanceName></VPNInstanceName>
<State></State>
<Domain></Domain>
<LoginTime></LoginTime>
<OnlineTime></OnlineTime>
<RemainTime></RemainTime>
<IPv4TotalUsers></IPv4TotalUsers>
<IPv6TotalUsers></IPv6TotalUsers>
<IPPool></IPPool>
<IPv6Pool></IPv6Pool>
<UserProfile></UserProfile>
<GroupUserProfile></GroupUserProfile>
<UserGroupAcl></UserGroupAcl>
<InboundCAR></InboundCAR>
<OutboundCAR></OutboundCAR>
<IPv4FlowStat></IPv4FlowStat>
<IPv6FlowStat></IPv6FlowStat>
</IfleaseSession>
</IPoEIfleaseSession>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEIfleaseSession
Table type	Multi-instance table
Row name	IfleaseSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	Protocol type	Index	Enumeration: 0—IPv4 1—IPv6	IPv4 or IPv6
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
UserName	User name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
State	User state	N/A	Enumeration: • 1—Init • 2—Offline • 3—Auth • 4—AuthFail • 5—AuthPass • 6—AssignedIP • 9—Online	N/A
Domain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
LoginTime	Login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	Online time	N/A	String. Length: 1 to 8 characters.	N/A
RemainTime	Remaining time	N/A	Unsigned integer.	Unit: seconds
IPv4TotalUsers	Total ipv4 interface-leased users	N/A	Unsigned integer.	N/A
IPv6TotalUsers	Total ipv6 interface-leased users	N/A	Unsigned integer.	N/A
IPPool	DHCP address pool name	N/A	String. Length: 1 to 64 characters.	N/A
IPv6Pool	DHCPv6 address pool name	N/A	String. Length: 1 to 64 characters.	N/A
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
UserGroupAcl	Authorized User group ACL name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
InboundCAR	Authorized CAR	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	value of inbound		Length: 1 to 80 characters.	
OutboundCAR	Authorized CAR value of outbound	N/A	String. Length: 1 to 80 characters.	N/A
IPv4FlowStat	IPv4 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes

IPoE/IPoEv4SubnetLeaseSession

This table contains IPoE IPv4 subnet-leased sessions.

XML structure

```

<IPoE>
  <IPoEv4SubnetLeaseSession>
    <SubnetLeaseSession>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
      <Mask></Mask>
      <VPNInstanceName></VPNInstanceName>
      <UserName></UserName>
      <State></State>
      <Domain></Domain>
      <IPv4TotalUsers></IPv4TotalUsers>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
      <UserProfile></UserProfile>
      <GroupUserProfile></GroupUserProfile>
      <UserGroupAcl></UserGroupAcl>
      <InboundCAR></InboundCAR>
      <OutboundCAR></OutboundCAR>
      <IPv4FlowStat></IPv4FlowStat>
    </SubnetLeaseSession>
  </IPoEv4SubnetLeaseSession>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4SubnetLeaseSession
Table type	Multi-instance table
Row name	SubnetLeaseSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
Mask	IPv4 address mask	Index	Unsigned integer. Value range: 1 to 31.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserName	User name for authentication.	N/A	String. Length: 1 to 255 characters.	N/A
State	User state	N/A	Enumeration: 1—Init 2—Offline 3—Auth 4—AuthFail 5—AuthPass 6—AssignedIP 9—Online	N/A
Domain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
IPv4TotalUsers	Total IPv4 subnet-leased users	N/A	Unsigned integer.	N/A
LoginTime	Login time	N/A	DateTime.	Example: YYYY-MM-DDT

Column name	Column description	Column type	Data type and restrictions	Remarks
				hh:mm:ss
OnlineTime	Online time	N/A	String. Length: 1 to 8 characters.	N/A
RemainTime	Remaining time	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
UserGroupAcl	Authorized User group ACL name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
InboundCAR	Authorized inbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
OutboundCAR	Authorized outbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
IPv4FlowStat	IPv4 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes

IPoE/IPoEv6SubnetLeaseSession

This table contains IPoE IPv6 subnet-leased sessions.

XML structure

```

<IPoE>
  <IPoEv6SubnetLeaseSession>
    <SubnetLeaseSession>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
      <Mask></Mask>
      <VPNInstanceName></VPNInstanceName>
      <UserName></UserName>
      <State></State>
      <Domain></Domain>
      <IPv6TotalUsers></IPv6TotalUsers>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
      <UserProfile></UserProfile>
    
```

```

    <GroupUserProfile></GroupUserProfile>
    <UserGroupAcl></UserGroupAcl>
    <InboundCAR></InboundCAR>
    <OutboundCAR></OutboundCAR>
    <IPv6FlowStat></IPv6FlowStat>
  </SubnetLeaseSession>
</IPoEv6SubnetLeaseSession>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6SubnetLeaseSession
Table type	Multi-instance table
Row name	SubnetLeaseSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
Mask	IPv6 address Mask	Index	Unsigned integer. Value range: 1 to 127.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserName	User name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
State	User state	N/A	Enumeration: 1—Init 2—Offline 3—Auth 4—AuthFail 5—AuthPass 6—AssignedIP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			9—Online	
Domain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
IPv6TotalUsers	Total IPv6 subnet-leased users	N/A	Unsigned integer.	N/A
LoginTime	Login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	Online time	N/A	String. Length: 1 to 8 characters.	N/A
RemainTime	Remaining time	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
GroupUserprofile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
UserGroupAcl	Authorized User group ACL name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
InboundCAR	Authorized inbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
OutboundCAR	Authorized outbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
IPv6FlowStat	IPv6 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes

IPoE/IPoEv4Session

This table contains IPoE IPv4 sessions.

XML structure

```

<IPoE>
  <IPoEv4Session>
    <Session>
      <Interface></Interface>
      <IPv4Address></IPv4Address>
      <MACAddress></MACAddress>
      <IPv6Address></IPv6Address>
    </Session>
  </IPoEv4Session>
</IPoE>

```

```

<Domain></Domain>
<VPNInstanceName></VPNInstanceName>
<UserName></UserName>
<UserID></UserID>
<ServiceVLAN></ServiceVLAN>
<CustomerVLAN></CustomerVLAN>
<IPv4SessionType></IPv4SessionType>
<IPv6SessionType></IPv6SessionType>
<State></State>
<IPv4Pool></IPv4Pool>
<IPv6Pool></IPv6Pool>
<VxLANID></VxLANID>
<IPv4DHCPLeaseTime></IPv4DHCPLeaseTime>
<IPv6DHCPLeaseTime></IPv6DHCPLeaseTime>
<LoginTime></LoginTime>
<OnlineTime></OnlineTime>
<RemainTime></RemainTime>
<UserProfile></UserProfile>
<GroupUserProfile></GroupUserProfile>
<UserGroupAcl></UserGroupAcl>
<InboundCAR></InboundCAR>
<OutboundCAR></OutboundCAR>
<IPv4FlowStat></IPv4FlowStat>
<IPv6FlowStat></IPv6FlowStat>
</Session>
</IPoEv4Session>
</IPoE>

```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv4Session
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv4Address	IPv4 address	Index	String, dotted decimal notation.	N/A
MACAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IPv6Address	IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
Domain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserName	User name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
UserID	User ID assigned to a user in online state	N/A	String. Length: 1 to 10 characters.	N/A
ServiceVLAN	Service provider VLAN	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN	N/A	Unsigned short.	N/A
IPv4SessionType	Session type	N/A	Enumeration: • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip	N/A
IPv6SessionType	Session type	N/A	Enumeration: • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip • 6—NDRS	N/A
State	User state	N/A	Enumeration: • 1—Init • 2—Offline • 3—Auth • 4—AuthFail • 5—AuthPass • 6—AssignedIP • 9—Online • 10—Backup	N/A
IPv4Pool	DHCP address pool name	N/A	String. Length: 1 to 64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
IPv6Pool	DHCPv6 address pool name	N/A	String. Length: 1 to 64 characters.	N/A
VxLANID	VXLAN ID	N/A	Unsigned integer.	N/A
IPv4DHCPLease Time	Lease duration	N/A	Unsigned integer.	Unit: seconds
IPv6DHCPLease Time	Lease duration	N/A	Unsigned integer.	Unit: seconds
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	User online time	N/A	String. Length: 1 to 8 characters..	N/A
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
UserGroupAcl	Authorized User group ACL name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
InboundCAR	Authorized inbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
OutboundCAR	Authorized outbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
IPv4FlowStat	IPv4 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes

IPoE/IPoEv6Session

This table contains IPoE IPv6 sessions.

XML structure

```
<IPoE>
  <IPoEv6Session>
    <Session>
      <Interface></Interface>
      <IPv6Address></IPv6Address>
      <MACAddress></MACAddress>
      <IPv4Address></IPv4Address>
      <Domain></Domain>
      <VPNInstanceName></VPNInstanceName>
      <UserName></UserName>
      <UserID></UserID>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <IPv4SessionType></IPv4SessionType>
      <IPv6SessionType></IPv6SessionType>
      <State></State>
      <IPv4Pool></IPv4Pool>
      <IPv6Pool></IPv6Pool>
      <VxLANID></VxLANID>
      <IPv4DHCPLeaseTime></IPv4DHCPLeaseTime>
      <IPv6DHCPLeaseTime></IPv6DHCPLeaseTime>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
      <UserProfile></UserProfile>
      <GroupUserProfile></GroupUserProfile>
      <UserGroupAcl></UserGroupAcl>
      <InboundCAR></InboundCAR>
      <OutboundCAR></OutboundCAR>
      <IPv4FlowStat></IPv4FlowStat>
      <IPv6FlowStat></IPv6FlowStat>
    </Session>
  </IPoEv6Session>
</IPoE>
```

Table description

Item	Description
Feature name	IPoE
Table name	IPoEv6Session
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interface	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
IPv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MACAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IPv4Address	IPv4 address	N/A	String, dotted decimal notation.	N/A
Domain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserName	User name for authentication	N/A	String. Length: 1 to 255 characters.	N/A
UserID	User ID assigned to a user in online state	N/A	String. Length: 1 to 10 characters.	N/A
ServiceVLAN	Service provider VLAN	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN	N/A	Unsigned short.	N/A
IPv4SessionType	Session type	N/A	Enumeration: 0—NULL 3—Static. 4—DHCP 5—Unclassified-ip	N/A
IPv6SessionType	Session type	N/A	Enumeration: 0—NULL 3—Static. 4—DHCP 5—Unclassified-ip 6—NDRS	N/A
State	User state	N/A	Enumeration: 1—Init	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—Offline • 3—Auth • 4—AuthFail • 5—AuthPass • 6—AssignedIP • 9—Online • 10—Backup	
IPv4Pool	DHCP address pool name	N/A	String. Length: 1 to 64 characters.	N/A
IPv6Pool	DHCPv6 address pool name	N/A	String. Length: 1 to 64 characters.	N/A
VxLANID	VXLAN ID	N/A	Unsigned integer.	N/A
IPv4DHCPLeaseTime	Lease duration	N/A	Unsigned integer.	Unit: seconds
IPv6DHCPLeaseTime	Lease duration	N/A	Unsigned integer.	Unit: seconds
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	User online time	N/A	String. Length: 1 to 8 characters.	N/A
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
UserGroupAcl	Authorized User group ACL name from AAA	N/A	String. Length: 1 to 74 characters.	N/A
InboundCAR	Authorized inbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
OutboundCAR	Authorized outbound CAR value	N/A	String. Length: 1 to 80 characters.	N/A
IPv4FlowStat	IPv4 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes
IPv6FlowStat	IPv6 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes

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XML structure	4
Table description	4
Columns	4

IPS

IPS/ImportSnortSignatures

This table contains information about importing IPS rules in the snort format.

XML structure

```
<IPS>
  <ImportSnortSignatures>
    <URL></URL>
    <Location></Location>
  </ImportSnortSignatures>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ImportSnortSignatures
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the imported signature file.	N/A	String, case-insensitive When the file is remote, Length: 1 to 255 characters. When the file is local, Length: 1 to 127 characters.	URL
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the snort file after the snort file import is complete.

IPS/SignatureManualUpgrade

This table contains information about IPS signature manual upgrade.

XML structure

```
<IPS>
  <SignatureManualUpgrade>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureManualUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL of the upgrade signature file.	N/A	String, case-insensitive For a remote file, Length: 1 to 255 characters. For a local file, Length: 1 to 127 characters.	URL
Location	Location of the file.	N/A	Enumeration: • 0—Local • 1—remote	If Location is set to 0, the device deletes the signature file when the signature library update is completed.

IPS/SignatureAutoUpgradeNow

This table contains information about immediate IPS signature auto upgrading.

XML structure

```
<IPS>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgradeNow	Immediate auto upgrade	N/A	This column must be empty.	N/A

IPS/SignatureRollback

This table contains information about IPS signatures rollback.

XML structure

```
<IPS>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback to a specific version	N/A	Boolean: • true: Rollback to last version • false: Rollback to the original version	N/A

IPS/UnloadSnortSignatures

This table contains information about removing IPS user-defined rules.

XML structure

```
<IPS>
  <UnloadSnortSignatures>
    <Unload></Unload>
  </UnloadSnortSignatures>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UnloadSnortSignatures
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Unload	Remove user-defined rule	N/A	This column must be empty	N/A

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IPS

IPS/Policies

This table contains IPS policy information.

XML structure

```
<IPS>
  <Policies>
    <Policy>
      <Name></Name>
      <FilterDirection></FilterDirection>
      <FilterSeverity></FilterSeverity>
      <FilterAction></FilterAction>
      <ProtectionList>
        <ProtectionId></ProtectionId>
        <SubProtectionId></SubProtectionId>
      </ProtectionList>
      <CategoryList>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </CategoryList>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </Policy>
  </Policies>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be default
FilterDirection	Traffic direction to which the IPS signature applies	N/A	Enumeration: 0—Client to server. 1—Server to client. 2—Both.	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer 1—Low. 2—Medium. 4—High. 8—Critical.	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2.).
FilterAction	Default action of the IPS signature	N/A	Unsigned integer 1—Block. 2—Drop. 4—Permit. 8—Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
ProtectionList	List of protected targets	Data structure	Members include: - ProtectionId. - SubProtectionId.	N/A
ProtectionId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the IPS signature file.
SubProtectionId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
CategoryList	List of attack categories	Data structure	Members include: - CategoryId. - SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the Subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the IPS signature file.
Action	Action applied to matching	N/A	Enumeration: 0—Block.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets.		1—Drop. 2—Permit. 3—Reset. 4—Redirect. 5—Default.	
Logging	Whether or not to log the matching packets	N/A	Boolean: - true. - false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: - true. - false.	N/A

IPS/PolicyOnProfile

This table contains information about the IPS policy applied to a DPI application profile.

XML structure

```

<IPS>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the IPS policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/PolicyExceptionSigs

This table contains information about exception signatures in an IPS policy..

XML structure

```
<IPS>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
      <SigID></SigID>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the IPS signature is user defined	Index	Boolean: • true. • false.	N/A
SigID	ID of the IPS signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. • 5—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

IPS/SignatureAutoUpgrade

This table contains IPS signature library auto update settings.

XML structure

```
<IPS>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not IPS signature library auto update is enabled	N/A	Boolean: - true. - false (default).	N/A
StartTime	Time when IPS signature library auto update starts	N/A	Time Format: HH:MM:SS	By default, IPS signature library auto update starts at 02:00:00 every day.
Type	Whether IPS signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: 0—Weekly. 1—Daily.	By default, IPS signature library auto update occurs on a daily basis.
Day	Days of the week on which IPS signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only Type is set to 0 .

IPS/ActionDefaultParameters

This table contains IPS action parameter settings.

XML structure

```
<IPS>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
```



```

    </ActionDefaultParameters>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	ActionDefaultParameters
Table type	Multi-instance table
Row name	ActionDefaultParameter
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: 1—Block. 2—Capture. 3—Logging. 4—Redirect. 5—Mail.	N/A
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The IPS action parameters are defined in the DIM module.

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XML structure	17
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IPS

IPS/Policies

This table contains IPS policy information.

XML structure

```
<IPS>
  <Policies>
    <Policy>
      <Name></Name>
      <FilterDirection></FilterDirection>
      <FilterSeverity></FilterSeverity>
      <FilterAction></FilterAction>
      <ProtectionList>
        <ProtectionId></ProtectionId>
        <SubProtectionId></SubProtectionId>
      </ProtectionList>
      <CategoryList>
        <CategoryId></CategoryId>
        <SubCategoryId></SubCategoryId>
      </CategoryList>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </Policy>
  </Policies>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be default .
FilterDirection	Traffic direction to which the IPS signature applies	N/A	Enumeration: • 0—Client to server. • 1—Server to client. • 2—Both.	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer: • 1—Low. • 2—Medium. • 4—High. • 8—Critical.	To specify multiple severity levels, set the value to the sum of the severity level IDs. For example, set the value to 3 to specify severity levels low (1) and medium (2).
FilterAction	Default action of the IPS signature	N/A	Unsigned integer: • 1—Block. • 2—Drop. • 4—Permit. • 8—Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
ProtectionList	List of protected targets	Data structure	Members include: • ProtectionId. • SubProtectionId.	N/A
ProtectionId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the IPS signature file.
SubProtectionId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target list can contain an unlimited number of subtargets.
CategoryList	List of attack categories	Data structure	Members include: • CategoryId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the IPS signature file.
Action	Action applied to	N/A	Enumeration:	N/A

	matching packets.		• 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. • 5—Default.	
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

IPS/PolicyOnProfile

This table contains information about the IPS policy applied to a DPI application profile.

XML structure

```

<IPS>
  <PolicyOnProfile>
    <profile>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </profile>
  </PolicyOnProfile>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	PolicyOnProfile
Table type	Multi-instance table
Row name	profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/ProtectionList

This table contains protected target information obtained from the IPS signature file.

XML structure

```

<IPS>
  <ProtectionList>
    <Protection>
      <ID></ID>
      <ProtectionName></ProtectionName>
      <SubProtectionList>
        <SubProtectionId></SubProtectionId>
        <SubProtectionName></SubProtectionName>
      </SubProtectionList>
    </Protection>
  </ProtectionList>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	ProtectionList
Table type	Multi-instance table
Row name	Protection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the protected target	Index	Unsigned integer.	N/A
ProtectionName	Name of the protected target	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SubProtectionList	List of subtargets	Data	Members include:	A protected target can

Column name	Column description	Column type	Data type and restrictions	Remarks
nList	contained in the protected target	structure	- SubProtectionId. - SubProtectionName.	contain an unlimited number of subtargets.
SubProtectionId	ID of the subtarget	N/A	Unsigned integer.	N/A
Subprotection Name	Name of the subtarget	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/CategoryList

This table contains attack category information obtained from the IPS signature file.

XML structure

```

<IPS>
  <CategoryList>
    <Category>
      <CategoryId></CategoryId>
      <CategoryName></CategoryName>
      <SubCategoryList>
        <SubCategoryId></SubCategoryId>
        <SubCategoryName></SubCategoryName>
      </SubCategoryList>
    </Category>
  </CategoryList>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	CategoryList
Table type	Multi-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryId	ID of the attack category	Index	Unsigned integer.	N/A
CategoryNam	Name of attack	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
e	category		Length: 1 to 63 characters.	
SubCategoryList	List of attack subcategories contained in the attack category	Data structure	Members include: - SubCategoryId. - SubCategoryName.	An attack category can contain an unlimited number of attack subcategories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	N/A
SubCategoryName	Name of the attack subcategory	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

IPS/PolicyExceptionSigs

This table contains information about exception signatures in an IPS policy.

XML structure

```

<IPS>
  <PolicyExceptionSigs>
    <PolicyExceptionSig>
      <PolicyName></PolicyName>
      <Userdefined></Userdefined>
      <SigID></SigID>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
    </PolicyExceptionSig>
  </PolicyExceptionSigs>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	PolicyExceptionSigs
Table type	Multi-instance table
Row name	PolicyExceptionSig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the IPS signature is user defined	Index	Boolean: - true. - false.	N/A
SigID	ID of the IPS signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: - true. - false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: 0—Block. 1—Drop. 2—Permit. 3—Reset. 4—Redirect. 5—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: - true. - false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: - true. - false.	N/A

IPS/Signatures

This table contains the IPS signature information.

XML structure

```

<IPS>
  <Signatures>
    <Signature>
      <SigID></SigID>
      <UserDefined></UserDefined>
      <SigName></SigName>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
    </Signature>
  </Signatures>
</IPS>

```

```

<Severity></Severity>
<Direction></Direction>
<Category></Category>
<CVEList>
  <CVE></CVE>
</CVEList>
<BIDList>
  <BID></BID>
</BIDList>
<MSList>
  <MS></MS>
</MSList>
<Enabled></Enabled>
<Action></Action>
<Logging></Logging>
<Capture></Capture>
<Solution></Solution>
<AttackFunction></AttackFunction>
</Signature>
</Signatures>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	Signatures
Table type	Multi-instance table
Row name	Signature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.
UserDefined	Whether or not the IPS signature is user defined	N/A	Boolean: - true. - false.	N/A
SigName	Name of the signature	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String, case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS

Column name	Column description	Column type	Data type and restrictions	Remarks
				signature file.
PublishTime	Time when the signature was published	N/A	String, case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration: 1—Critical. 2—High. 3—Medium. 4—Low.	The value is obtained from the IPS signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: 0—Client to server. 1—Server to client. 2—Both.	The value is obtained from the IPS signature file.
Category	Attack category of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE list	Data structure	Members include: CVE.	N/A
CVE	CVE ID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: BID.	N/A
BID	BID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
MSList	MS list	Data structure	Members include: MS.	N/A
MS	MS of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: - true. - false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: 0—Block. 1—Drop.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—Permit. 3—Reset. 4—Redirect.	
Logging	Whether or not to log the matching packets	N/A	Boolean: - true. - false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: - true. - false.	N/A
Solution	Solution to the attack	N/A	String, case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

IPS/SignatureFileInfos

This table contains IPS signature file information.

XML structure

```

<IPS>
  <SignatureFileInfos>
    <FileInfo>
      <FileStatus></FileStatus>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Description></Description>
    </FileInfo>
  </SignatureFileInfos>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	SignatureFileInfos
Table type	MultiSingle-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileStatus	Status of the IPS signature file	Index	Enumeration: • 1—Current. • 2—Last. • 3—Factory default.	N/A
Version	Version of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 31 characters.	Example: 1.0.36.
PublishedTime	Time when the signature file was published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	The local time zone is used.
Description	Description of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

IPS/SignatureAutoUpgrade

This table contains IPS signature library auto update settings.

XML structure

```
<IPS>
  <SignatureAutoUpgrade>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrade>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureAutoUpgrade
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not IPS signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when IPS signature library auto update starts	N/A	Time. Format: HH:MM:SS.	By default, IPS signature library auto update starts at 02:00:00 every day.
Type	Whether IPS signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • 0—Weekly. • 1—Daily.	By default, IPS signature library auto update occurs on a daily basis.
Day	Days of the week on which IPS signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only Type is set to 0.

IPS/SignatureUpgradePercentage

This table contains the IPS signature library update progress information.

XML structure

```
<IPS>
  <SignatureUpgradePercentage>
    <Percentage></Percentage>
  </SignatureUpgradePercentage>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	SignatureUpgradePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Progress of the signature library update operation, in percentages.	N/A	Unsigned integer. Value range: 0 to 100.	Any value outside the valid range indicates that an error has occurred.

IPS/ActionDefaultParameters

This table contains IPS action parameter settings.

XML structure

```
<IPS>
  <ActionDefaultParameters>
    <ActionDefaultParameter>
      <Action></Action>
      <ParameterName></ParameterName>
    </ActionDefaultParameter>
  </ActionDefaultParameters>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	ActionDefaultParameters
Table type	MultiSingle-instance table
Row name	ActionDefaultParameter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: • 1—Block. • 2—Capture. • 3—Logging. • 4—Redirect. • 5—Mail.	N/A
ParameterNa	Parameter name	N/A	String, case-insensitive.	The IPS action

Column name	Column description	Column type	Data type and restrictions	Remarks
me			Length: 1 to 63 characters.	parameters are defined in the DIM module.

IPS/SignaturePages

This table contains information about IPS signatures displayed on paginated lists.

XML structure

```

<IPS>
  <SignaturePages>
    <SignaturePage>
      <UserID></UserID>
      <Position></Position>
      <TotalCount></TotalCount>
      <SigID></SigID>
      <SigName></SigName>
      <SigDescription></SigDescription>
      <PublishTime></PublishTime>
      <UpdateTime></UpdateTime>
      <Protection></Protection>
      <SubProtection></SubProtection>
      <Severity></Severity>
      <Direction></Direction>
      <Category></Category>
      <CVEList>
        <CVE></CVE>
      </CVEList>
      <BIDList>
        <BID></BID>
      </BIDList>
      <MSList>
        <MS></MS>
      </MSList>
      <Enabled></Enabled>
      <Action></Action>
      <Logging></Logging>
      <Capture></Capture>
      <Solution></Solution>
      <AttackFunction></AttackFunction>
    </SignaturePage>
  </SignaturePages>
</IPS>

```


Table description

Item	Description
Feature name	IPS
Table name	SignaturePages
Table type	MultiSingle-instance table
Row name	SignaturePage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current user	Index	Unsigned integer.	N/A
Position	Position of the signature on the entire signature list.	Index	Unsigned integer.	N/A
TotalCount	Total number of signatures	N/A	Unsigned integer.	If the query function is used, the total number of signatures in the query results is displayed.
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.
SigName	Name of the signature	N/A	String: case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String: case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS signature file.
PublishTime	Time when the signature was published	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration: 1—Critical.	The value is obtained from the IPS

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—High. • 3—Medium. • 4—Low.	signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • 0—Client to server. • 1—Server to client. • 2—Both.	The value is obtained from the IPS signature file.
Category	Attack category of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE List	Data structure	Members include: • CVE.	N/A
CVE	CVE-ID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the signature	N/A	Enumeration: • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String: case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

IPS/UserSignatureAnalyseInfos

This table contains IPS signature import failure analysis information.

XML structure

```
<IPS>
  <UserSignatureAnalyseInfos>
    <UserSignatureAnalyseInfo>
      <ID></ID>
      <AnalyseInfo></AnalyseInfo>
    </UserSignatureAnalyseInfo>
  </UserSignatureAnalyseInfos>
</IPS>
```

Table description

Item	Description
Feature name	IPS
Table name	UserSignatureAnalyseInfos
Table type	MultiSingle-instance table
Row name	UserSignatureAnalyseInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the IPS signature failed to be imported	Index	Unsigned integer.	N/A
AnalyseInfo	Analysis information	N/A	String, case-insensitive. Length: 1 to 511 characters.	N/A

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Resource Summary for IPS

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policies	/api/v1/IPS/Policies	Y	Y	Y	Y
PolicyOnProfile	/api/v1/IPS/PolicyOnProfile	Y	Y	Y	Y
ProtectionList	/api/v1/IPS/ProtectionList	Y	N	N	N
CategoryList	/api/v1/IPS/CategoryList	Y	N	N	N
PolicyExceptionSigs	/api/v1/IPS/PolicyExceptionSigs	Y	Y	N	Y
Signatures	/api/v1/IPS/Signatures	Y	N	N	N
SignatureFileInfos	/api/v1/IPS/SignatureFileInfos	Y	N	N	N
SignatureAutoUpgrade	/api/v1/IPS/SignatureAutoUpgrade	Y	N	Y	N
SignatureUpgradePercentage	/api/v1/IPS/SignatureUpgradePercentage	Y	N	N	N
ActionDefaultParameters	/api/v1/IPS/ActionDefaultParameters	Y	Y	Y	Y
SignaturePages	/api/v1/IPS/SignaturePages	Y	N	N	N
UserSignatureAnalysisInfos	/api/v1/IPS/UserSignatureAnalysisInfos	Y	N	N	N

IPS

Policies

This table contains IPS policy information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be default .
FilterDirection	Traffic direction to which the IPS signature applies	N/A	Enumeration: 0—Client to server. 1—Server to client. 2—Both.	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer 1—Low. 2—Medium.	To specify multiple severity levels, set the value to the sum of the severity level IDs. For

			• 4—High. • 8—Critical.	example, set the value to 3 to specify severity levels low (1) and medium (2).
FilterAction	Default action of the IPS signature	N/A	Unsigned integer • 1—Block. • 2—Drop. • 4—Permit. • 8—Reset.	To specify multiple actions, set the value to the sum of the action IDs. For example, set the value to 3 to specify actions block (1) and drop (2).
ProtectionList	List of protected targets	Data structure	Members include: • ProtectionId. • SubProtectionId.	N/A
ProtectionId	ID of the protected target	N/A	Unsigned integer.	A protected target list can contain an unlimited number of protected targets obtained from the IPS signature file.
SubProtectionId	ID of the protected subtarget	N/A	Unsigned integer.	A protected target can contain an unlimited number of subtargets.
CategoryList	List of attack categories	Data structure	Members include: • CategoryId. • SubCategoryId.	N/A
CategoryId	ID of the attack category	N/A	Unsigned integer.	An attack category list can contain an unlimited number of attack categories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	An attack category can contain an unlimited number of subcategories obtained from the IPS signature file.
Action	Action applied to matching packets.	N/A	Enumeration: • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. • 5—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A

Example

Example 1: Get information about an IPS policy.

JSON Request

GET /api/v1/IPS/Policies?index=PolicyName%3D1

JSON Response

200 OK

```
{
  "Policies":
  [{
    "Name": "1",
    "FilterDirection": 0,
    "FilterSeverity": 8,
    "FilterAction": 2,
    "ProtectionList":
    [{
      "ProtectionId": 1,
      "SubProtectionId": 2
    },
    {
      "ProtectionId": 1,
      "SubProtectionId": 3
    }
  ],
  "CategoryList":
  [{
    "CategoryId": 1,
    "SubCategoryId": 3
  },
  {
    "CategoryId": 1,
    "SubCategoryId": 4
  }
  ],
  "Action": 5,
  "Logging": false,
  "Capture": false
}]
}
```

Example 2: Add an IPS policy.

JSON Request

POST /api/v1/IPS/Policies

```
{
  "Policies":
  [{
    "Name": "2",
    "FilterDirection": 0,
    "FilterSeverity": 8,
    "FilterAction": 2,
    "ProtectionList":
    [{
      "ProtectionId": 1,
      "SubProtectionId": 2
    },
    {
      "ProtectionId": 1,
      "SubProtectionId": 3
    }
  ]],
  "CategoryList":
  [{
    "CategoryId": 1,
    "SubCategoryId": 3
  },
  {
    "CategoryId": 1,
    "SubCategoryId": 4
  }
  ]],
  "Action": 5,
  "Logging": false,
  "Capture": false
}]
}
```

JSON Response

201 Created

Example 3: Change the description of an IPS policy.

JSON Request

PUT /api/v1/IPS/Policies?index=PolicyName%3D2

```
{
  "Policies":
  [{
    "Name": "1",
    "FilterDirection": 1,
    "FilterSeverity": 1,
    "FilterAction": 1,
    "ProtectionList":
    [{
      "ProtectionId": 1,
      "SubProtectionId": 2
    },
    {
      "ProtectionId": 1,
      "SubProtectionId": 3
    }
  ],
    "CategoryList":
    [{
      "CategoryId": 1,
      "SubCategoryId": 3
    },
    {
      "CategoryId": 1,
      "SubCategoryId": 4
    }
  ],
    "Action": 4,
    "Logging": true,
    "Capture": true
  ]
}
```

JSON Response

204 No Content

Example 4: Delete an IPS policy.

JSON Request

DELETE /api/v1/IPS/Policies?index=PolicyName%3D2

JSON Response

204 No Content

PolicyOnProfile

This table contains information about the IPS policy applied to a DPI application profile.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the DPI application profile	Index	String, case-insensitive. Length: 1 to 100 characters.	N/A
PolicyName	Name of the IPS policy applied to the DPI application profile	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Example

Example 1: Get information about the IPS policy applied to a DPI application profile.

JSON Request

GET /api/v1/IPS/PolicyOnProfile?index=ProfileName%3D1

JSON Response

200 OK

```
{
  "PolicyOnProfile":
  [{
    "ProfileName":"1",
    "PolicyName":"policy 1"
  }]
}
```

Example 2: Apply an IPS policy to a DPI application profile.

JSON Request

POST /api/v1/IPS/PolicyOnProfile

```
{
  "PolicyOnProfile":
  [{
    "ProfileName":"2",
    "PolicyName":"policy 2"
  }]
}
```

JSON Response

201 Created

Example 3: Change the IPS policy applied to a DPI application profile.

JSON Request

PUT /api/v1/IPS/PolicyOnProfile?index=ProfileName%3D2

```
{
  "PolicyOnProfile":
  [{
    "ProfileName":"2",
    "PolicyName":"policy 3"
  }]
}
```

JSON Response

204 No Content

Example 4: Remove the IPS policy applied to a DPI application profile.

JSON Request

DELETE /api/v1/IPS/PolicyOnProfile?index=ProfileName%3D2

JSON Response

204 No Content

ProtectionList

This table contains protected target information obtained from the IPS signature file.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the protected target	Index	Unsigned integer.	N/A
ProtectionName	Name of the protected target	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SubProtectionList	List of subtargets contained in the protected target	Data structure	Members include: - SubProtectionId. - SubProtectionName.	A protected target can contain an unlimited number of subtargets.
SubProtectionId	ID of the subtarget	N/A	Unsigned integer.	N/A
Subprotection Name	Name of the subtarget	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Example

Example 1: Get protected target information from the IPS module.

JSON Request

GET /api/v1/IPS/ProtectionList?index=ID%3D1

JSON Response

200 OK

```
{
  "ProtectionList":
  [{
    "ID":1,
    "ProtectionName":"OperationSystem",
    "SubProtectionList":
    [{
      "SubProtectionId":4,
      "SubProtectionName":"Windows"
    }],
    {
      "SubProtectionId":5,
      "SubProtectionName":" LinuxUnix "
```

```

    }}
  }}
}
```

CategoryList

This table contains attack category information obtained from the IPS signature file.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryId	ID of the attack category	Index	Unsigned integer.	N/A
CategoryName	Name of attack category	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
SubCategoryList	List of attack subcategories contained in the attack category	Data structure	Members include: - SubCategoryId. - SubCategoryName.	An attack category can contain an unlimited number of attack subcategories.
SubCategoryId	ID of the attack subcategory	N/A	Unsigned integer.	N/A
SubCategoryName	Name of the attack subcategory	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Example

Example 1: Get attack category information from the IPS module.

JSON Request

```
GET /api/v1/IPS/CategoryList?index=CategoryId%3D1
```

JSON Response

200 OK

```
{
  "CategoryList":
  [{
    "CategoryId":1,
    "CategoryName":"Vulnerability",
    "SubCategoryList":
    [{
      "SubCategoryId":4,
```

```

        "SubCategoryName":"SQLInjection"
    },
    {
        "SubCategoryId ":5,
        "SubCategoryName":"XSS"
    }
}
}
}

```

PolicyExceptionSigs

This table contains information about exception signatures in an IPS policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the IPS policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Userdefined	Whether or not the IPS signature is user defined	Index	Boolean: - true. - false.	N/A
SigID	ID of the IPS signature	Index	Unsigned integer. Value range: 1 to 4294967295.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: - true. - false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: 0—Block. 1—Drop. 2—Permit. 3—Reset. 4—Redirect. 5—Default.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: - true. - false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: - true. - false.	N/A

Example

Example 1: Get information about exception signatures in an IPS policy.

JSON Request

GET /api/v1/IPS/PolicyExceptionSigs

JSON Response

200 OK

```
{
  "PolicyExceptionSigs":
  [{
    "PolicyName": "1",
    "Userdefined": false,
    "SigID": 936,
    "Enabled": false,
    "Action": 3,
    "Logging": true,
    "Capture": false
  }]
}
```

Example 2: Add an exception signature in an IPS policy.

JSON Request

POST /api/v1/IPS/PolicyExceptionSigs

```
{
  "PolicyExceptionSigs":
  [{
    "PolicyName": "2",
    "Userdefined": false,
    "SigID": 936,
    "Enabled": false,
    "Action": 3,
    "Logging": true,
    "Capture": false
  }]
}
```

JSON Response

201 Created

Example 3: Delete an exception signature from an IPS policy.

JSON Request

DELETE /api/v1/IPS/PolicyExceptionSigs

JSON Response

204 No Content

Signatures

This table contains the IPS signature information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.
UserDefined	Whether or not the IPS signature is user defined	N/A	Boolean: • true. • false.	N/A
SigName	Name of the signature	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String, case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS signature file.
PublishTime	Time when the signature was published	N/A	String, case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration:	The value is obtained from the IPS signature

			• 1—Critical. • 2—High. • 3—Medium. • 4—Low.	file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: • 0—Client to server. • 1—Server to client. • 2—Both.	The value is obtained from the IPS signature file.
Category	Attack category of the signature	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE list	Data structure	Members include: • CVE.	N/A
CVE	CVE ID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: • BID.	N/A
BID	BID of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
MSList	MS list	Data structure	Members include: • MS.	N/A
MS	MS of the signature	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the IPS signature is enabled	N/A	Boolean: • true. • false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: • true. • false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: • true. • false.	N/A
Solution	Solution to the attack	N/A	String, case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Example

Example 1: Get IPS signature information.

JSON Request

GET /api/v1/IPS/Signatures?index=SignatureID%3D1

JSON Response

200 OK

```
{
  "Signatures":
  [{
    "SigID":1,
    "UserDefined":0,
    "SigName":"WEB_CLIENT_Microsoft_Internet_Explorer",
    "SigDescription":"WEB_CLIENT_Microsoft_Internet_Explorer_7_Navigation_Canceled",
    "PublishTime":"2014-12-12",
    "Protection":"OperationSystem",
    "SubProtection":"InternetExplorer",
    "Severity":1,
    "Direction":1,
    "Category":"Vulnerability",
    "Enabled":true,
    "Action":3,
    "Logging":true,
    "Capture":false,
    "AttackFunction":"XSS"
  ]
}
```

SignatureFileInfos

This table contains IPS signature file information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
FileStatus	Status of the IPS signature file	Index	Enumeration: 1—Current. 2—Last.	N/A

			• 3—Factory default.	
Version	Version of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 31 characters.	Example: 1.0.36.
PublishedTime	Time when the signature file was published	N/A	Date/Time. Format: YYYY-MM-DDTHH:MM:SS.	The local time zone is used.
Description	Description of the IPS signature file	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Example

Example 1: Get IPS signature file information.

JSON Request

```
GET /api/v1/IPS/SignatureFileInfos?index=Version%3D1
```

JSON Response

200 OK

```
{
  "SignatureFileInfos":
  [{
    "FileStatus":1,
    "Version":"1.0.0",
    "PublishedTime":"1999-12-31T16:00:00",
    "Description":"1.0.0"
  }]
}
```

SignatureAutoUpgrade

This table contains IPS signature library auto update settings.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Whether or not IPS signature library auto update is enabled	N/A	Boolean: • true. • false (default).	N/A
StartTime	Time when IPS signature library	N/A	Time. Format: HH:MM:SS.	By default, IPS signature library auto

	auto update starts			update starts at 02:00:00 every day.
Type	Whether IPS signature library auto update occurs on a daily or a weekly basis	N/A	Enumeration: • 0—Weekly. • 1—Daily.	By default, IPS signature library auto update occurs on a daily basis.
Day	Days of the week on which IPS signature library auto update occurs	N/A	Unsigned integer. Value range: 0 to 6.	This column is displayed only Type is set to 0 .

Example

Example 1: Get IPS signature library auto update settings.

JSON Request

GET /api/v1/IPS/SignatureAutoUpgrade

JSON Response

200 OK

```
{
  "SignatureAutoUpgrade":
  [{
    "Enabled":true,
    "StartTime":"02:00:00",
    "Type":1,
    "Day":1
  ]
}
```

Example 2: Change the IPS signature auto update settings.

JSON Request

PUT /api/v1/IPS/SignatureAutoUpgrade

```
{
  "SignatureAutoUpgrade":
  [{
    "Enabled":true,
    "StartTime":"03:00:00",
    "Type":1,
    "Day":2
  ]
}
```

```
    }  
  }
```

JSON Response

204 No Content

SignatureUpgradePercentage

This table contains the IPS signature library update progress information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Progress of the signature library update operation, in percentages.	N/A	Unsigned integer. Value range: 0 to 100.	Any value outside the valid range indicates that an error has occurred.

Example

Example 1: Get IPS signature library update progress information.

JSON Request

GET /api/v1/IPS/SignatureUpdatePercentage

JSON Response

200 OK

```
{  
  "SignatureUpdatePercentage":  
    [{  
      "Percentage":100  
    }]  
}
```

ActionDefaultParameters

This table contains IPS action parameter settings.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action	Index	Enumeration: • 1—Block. • 2—Capture. • 3—Logging. • 4—Redirect. • 5—Mail.	N/A
ParameterName	Parameter name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The IPS action parameters are defined in the DIM module.

Example

Example 1: Get the parameter profile of an IPS action.

JSON Request

GET /api/v1/IPS/ActionDefaultParameters?index=Action%3D4

JSON Response

200 OK

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
    "ParameterName":"IPS_redirect_default_parameter"
  }]
}
```

Example 2: Specify a parameter profile for an IPS action.

JSON Request

POST /api/v1/IPS/ActionDefaultParameters

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
    "ParameterName":"IPS_redirect_parameter1"
  }]
}
```

```
}
```

JSON Response

201 Created

Example 3: Change the parameter profile used by an IPS action.

JSON Request

PUT /api/v1/IPS/ActionDefaultParameters?index=Action%3D4

```
{
  "ActionDefaultParameters":
  [{
    "Action":4,
    "ParameterName":"IPS_redirect_parameter2"
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the parameter profile used by an IPS action.

JSON Request

DELETE /api/v1/IPS/ActionDefaultParameters?index=Action%3D4

JSON Response

204 No Content

SignaturePages

This table contains information about IPS signatures displayed on paginated lists.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current user	Index	Unsigned integer.	N/A

Position	Position of the signature on the entire signature list.	Index	Unsigned integer.	N/A
TotalCount	Total number of signatures	N/A	Unsigned integer.	If the query function is used, the total number of signatures in the query results is displayed.
SigID	ID of the signature	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the IPS signature file.
SigName	Name of the signature	N/A	String: case-insensitive. Length: 1 to 127 characters.	The value is obtained from the IPS signature file.
SigDescription	Description of the signature	N/A	String: case-insensitive. Length: 1 to 1023 characters.	The value is obtained from the IPS signature file.
PublishTime	Time when the signature was published	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
UpdateTime	Time when the signature was last updated	N/A	String: case-insensitive. Length: 1 to 11 characters. Format: YYYY-MM-DD.	The value is obtained from the IPS signature file.
Protection	Protected target of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
SubProtection	Protected subtarget	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
Severity	Severity level of the signature	N/A	Enumeration: 1—Critical. 2—High. 3—Medium. 4—Low.	The value is obtained from the IPS signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: 0—Client to server. 1—Server to client. 2—Both.	The value is obtained from the IPS signature file.
Category	Attack category of the signature	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the IPS signature file.
CVEList	CVE List	Data structure	Members include: CVE.	N/A
CVE	CVE-ID of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
BIDList	BID list	Data structure	Members include: BID.	N/A
BID	BID of the	N/A	String: case-insensitive.	The value is obtained

	signature		Length: 1 to 31 characters.	from the IPS signature file.
MSList	MS list	Data structure	Members include: MS.	N/A
MS	MS of the signature	N/A	String: case-insensitive. Length: 1 to 31 characters.	The value is obtained from the IPS signature file.
Enabled	Whether or not the signature is enabled	N/A	Boolean: - true. - false.	N/A
Action	Action to take on packets matching the signature	N/A	Enumeration: 0—Block. 1—Drop. 2—Permit. 3—Reset. 4—Redirect.	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: - true. - false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: - true. - false.	N/A
Solution	Solution to the attack	N/A	String: case-insensitive. Length: 1 to 511 characters.	The value is obtained from the IPS signature file.
AttackFunction	Subcategory of the signature	N/A	String: case-insensitive. Length: 1 to 255 characters.	N/A

Example

Example 1: Get information about IPS signatures displayed on paginated lists.

JSON Request

GET /api/v1/IPS/SignaturePages

JSON Response

200 OK

```
{
  "SignaturePages":
  [{
    "UserID":0,
    "Position":2,
    "TotalCount":139,
    "SigID":19572,
    "SigName":"WEB_CLIENT_Microsoft_Internet_Explorer",
```

```

        "SigDescription": "WEB_CLIENT_Microsoft_Internet_Explorer_7_Navigation_Canceled",
        "PublishTime": "2014-12-12",
        "Protection": "OperationSystem",
        "SubProtection": "InternetExplorer",
        "Severity": 1,
        "Direction": 1,
        "Category": "Vulnerability",
        "Enabled": true,
        "Action": 3,
        "Logging": true,
        "Capture": false,
        "AttackFunction": "XSS"
    }
}

```

UserSignatureAnalyseInfos

This table contains IPS signature import failure analysis information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the IPS signature failed to be imported	Index	Unsigned integer.	N/A
AnalyseInfo	Analysis information	N/A	String: case-insensitive. Length: 1 to 511 characters.	N/A

Example

Example 1: Get IPS signature import failure analysis information.

JSON Request

GET /api/v1/IPS/UserSignatureAnalyseInfos?index=ID%3D1

JSON Response

200 OK

```

{
  "UserSignatureAnalyseInfos":
  [

```

```
"ID":1,  
  "AnalyseInfo":"Snort_rule 3, sid:None, Error:the action don't be supported, Tip:please check."  
}]  
}
```

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XML structure	5
Table description	5
Columns	5

IPsec

IPsec/ResetAllSA

This table is used to reset all IPsec SA.

XML structure

```
<IPsec>
  <ResetAllSA>
    <Reset/>
  </ResetAllSA>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetAllSA
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Reset all IPsec SA	N/A	Must be empty

IPsec/ResetSAPolicies

This table is used to reset IPsec SA by policy.

XML structure

```
<IPsec>
  <ResetSAPolicies>
    <Reset>
      <PolicyName></PolicyName>
      <AddrType></AddrType>
      <SeqNum></SeqNum>
    </Reset>
  </ResetSAPolicies>
</IPsec>
```

```

    </ResetSAPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSAPolicies
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name	Index	String. Length: 1 to 63 characters.	N/A
AddrType	IP protocol type	Index	Enumeration: 1—Ipv4Address. 2—Ipv6Address.	N/A
SeqNum	The sequence number for the IPsec policy	N/A	Unsigned integer. Value range: 1 to 65535.	If don't specify SeqNum, it will reset all the IPsec SAs belong to the policy group.

IPsec/ResetSARemoteAddr

This table is used to reset IPsec SA by remote address.

XML structure

```

<IPsec>
  <ResetSARemoteAddrs>
    <Reset>
      <AddrType></AddrType>
      <RemoteAddr></RemoteAddr>
    </Reset>
  </ResetSARemoteAddrs>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSARemoteAddrs
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AddrType	IP protocol type	Index	Enumeration: • 1—Ipv4Address. • 2—Ipv6Address.
RemoteAddr	Remot IP address	Index	Ipv4 address or Ipv6 address

IPsec/ResetSASPI

This table is used to reset IPsec SA by SPI, remote address and security protocol.

XML structure

```
<IPsec>
  <ResetSASPIs>
    <Reset>
      <AddrType></AddrType>
      <RemoteAddr></RemoteAddr>
      <SecurityProto></SecurityProto>
      <SPI></SPI>
    </Reset>
  </ResetSASPIs>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ResetSASPI
Table type	Multi-instance table
Row name	Reset

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AddrType	IP protocol type	Index	Enumeration: 1—Ipv4Address. 2—Ipv6Address.
RemoteAddr	Remote IP address	Index	Ipv4 address or Ipv6 address
SecurityProto	IPsec Security Protocol	Index	Enumeration: 1—AH. 2—ESP.
SPI	Security Parameter Index	Index	Unsigned integer. Value range: 0 to $2^{32} - 1$.

IPsec/ClearGlobalStats

This table is used to clear IPsec global statistics.

XML structure

```

<IPsec>
  <ClearGlobalStats>
    <Clear/>
  </ClearGlobalStats>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ClearGlobalStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear IPsec global statistics	N/A	Must be empty

IPsec/ClearTunnelsStats

This table is used to clear IPsec tunnel statistics.

XML structure

```
<IPsec>
  <ClearTunnelsStats>
    <Clear>
      <TunnelID></TunnelID>
    </Clear>
  </ClearTunnelsStats>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ClearTunnelsStats
Table type	Multi-instance table
Row name	Clear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.

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Columns	34
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XML structure	36
Table description	36
Columns	36
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XML structure	37
Table description	37
Columns	37

IPsec

IPsec/IPv4ApplyPolicies

This table displays IPv4 policies that have been applied to interface.

XML structure

```
<IPsec>
  <IPv4ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv4ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name		String. Length: 1 to 63 characters.

IPsec/IPv6ApplyPolicies

This table displays IPv6 policies that have been applied to interface.

XML structure

```
<IPsec>
```

```

<IPv6ApplyPolicies>
  <ApplyPolicy>
    <IfIndex></IfIndex>
    <Policy></Policy>
  </ApplyPolicy>
</IPv6ApplyPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name		String. Length: 1 to 63 characters.

IPsec/IPv4SourceInterfaces

This table displays IPv4 policies that have been bound to a source interface.

XML structure

```

<IPsec>
  <IPv4SourceInterfaces>
    <IPv4SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv4SourceInterface>
  </IPv4SourceInterfaces>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4SourceInterfaces
Table type	Multi-instance table
Row name	IPv4SourceInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/IPv6SourceInterfaces

This table displays IPv6 policies that have been bound to a source interface.

XML structure

```
<IPsec>
  <IPv6SourceInterfaces>
    <IPv6SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv6SourceInterface>
  </IPv6SourceInterfaces>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6SourceInterfaces
Table type	Multi-instance table
Row name	IPv6SourceInterface

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/InterfacesDFBit

This table displays the DF bit on the interface.

XML structure

```
<IPsec>
  <InterfacesDFBit>
    <InterfaceDFBit>
      <IfIndex></IfIndex>
      <DFBit></DFBit>
    </InterfaceDFBit>
  </InterfacesDFBit>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesDFBit
Table type	Multi-instance table
Row name	InterfaceDFBit
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	N/A Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on an interface	N/A	Enumeration: 1—clear. 2—copy. 3—set.	N/A

IPsec/GlobalConf

This table contains IPsec global configuration information.

XML structure

```

<IPsec>
  <GlobalConf>
    <DecryptCheck></DecryptCheck>
    <LoggingPacket></LoggingPacket>
    <Redundancy></Redundancy>
    <DFBit></DFBit>
    <AntiReplay>
      <State></State>
      <CheckWindow></CheckWindow>
    </AntiReplay>
    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime ></SAIdleTime>
    <FlowRedirect></FlowRedirect>
    <EstablishTunnelLimit></EstablishTunnelLimit>
    <Fragmentation></Fragmentation>  </GlobalConf>
  </IPsec>

```


Table description

Item	Description
Feature name	IPsec
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
DecryptCheck	ACL checking for de-encapsulated IPsec packets.	N/A	Boolean: true—Enable(default). false—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: true—Enable. false—Disable(default).
Redundancy	IPsec redundancy	N/A	Boolean: true—Enable. false—Disable(default).
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: 1—clear. 2—copy(default). 3—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: - State. - CheckWindow.
State	Anti-replay state	N/A	Boolean: true—Enable(default). false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: 1—Window size is 64(default). 2—Window size is 128. 3—Window size is 256. 4—Window size is 512. 5—Window size is 1024.
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.

Column name	Column description	Column type	Data type and restrictions
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800. The default is 3600.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295. The default is 1843200.
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.
FlowRedirect	OpenFlow entry deployment	N/A	Boolean: true—Enable. false—Disable(default).
EstablishTunnelLimit	Limit the number of IPsec tunnels	N/A	Unsigned integer. Value range: 1 to 4294967295.
Fragmentation	Fragment MTU-exceeded packets	N/A	Enumeration: 1—Fragment packets before IPsec encapsulation (default). 2—Fragment packets after IPsec encapsulation.

IPsec/TransformSets

This table contains transform sets information.

XML structure

```

<IPsec>
  <TransformSets>
    <TransformSet>
      <Name></Name>
      <EncapMode></EncapMode>
      <Proto></Proto>
      <ESPAuthAlgList>
        <ESPAuthAlgItem></ESPAuthAlgItem>
      </ESPAuthAlgList>
      <ESPEncrAlgList>
        <ESPEncrAlgItem></ESPEncrAlgItem>
      </ESPEncrAlgList>
      <AHAuthAlgList>
        <AHAuthAlgItem></AHAuthAlgItem>
      </AHAuthAlgList>
      <PFS></PFS>
    </TransformSet>
  </TransformSets>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	TransformSets
Table type	Multi-instance table
Row name	TransformSet
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the IPsec transform set	Index	String. Length: 1 to 63 characters.	N/A
EncapMode	Encapsulation mode	N/A	Enumeration: 1—transport. 2—tunnel.	N/A
Proto	Security protocol	N/A	Enumeration: 1—Specifies the AH protocol. 2—Specifies using the ESP protocol first and then using the AH protocol. 3—Specifies the ESP protocol(default).	N/A
ESPAuthAlgList	The authentication algorithm for ESP	Data structure	Members include: ESPAuthAlgItem.	N/A
ESPAuthAlgItem	The authentication algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 in ESPAuthAlgList.
ESPEncrAlgList	The encryption algorithm for ESP	Data structure	Members include: ESPEncrAlgItem.	N/A
ESPEncrAlgItem	The encryption algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table	Contains up to 6 in ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for ESP	Data structure	Members include: AHAuthAlgItem.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AHAuthAlgItem	The authentication algorithm number for AH	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 in AHAuthAlgList.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A

IPsec/IPv4ISAKMPPolicies

This table contains IPv4 ISAKMP policies information.

XML structure

```

<IPsec>
  <IPv4ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>

```

```

    <InboundSyncInterval></InboundSyncInterval>
    <OutboundSyncInterval></OutboundSyncInterval>
  </Redundancy>
  <SATriggerMode></SATriggerMode>
</Policy>
</IPv4ISAKMPPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow.

Column name	Column description	Column type	Data type and restrictions	Remarks
				One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
Preference	The preference of	N/A	Unsigned integer. Value range: 1 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the static routes		Default value is 60.	
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: 1—traffic-based(default). 2—auto.	N/A

IPsec/IPv6ISAKMPPolicies

This table contains IPv6 ISAKMP policies information.

XML structure

```

<IPsec>
  <IPv6ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>

```

```

    <Name></Name>
    <Number></Number>
    <Mode></Mode>
</ACL>
<Remote>
    <Addr></Addr>
    <HostName></HostName>
</Remote>
<LocalAddr></LocalAddr>
<IKEProfile></IKEProfile>
<TransformsetList>
    <Transformset></Transformset>
</TransformsetList>
<QosPreClassify></QosPreClassify>
<RRI>
    <RRIEnable></RRIEnable>
    <Preference></Preference>
    <Tag></Tag>
</RRI>
<SADuration>
    <Seconds></Seconds>
    <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime></SAIdleTime>
<Redundancy>
    <InboundSyncInterval></InboundSyncInterval>
    <OutboundSyncInterval></OutboundSyncInterval>
</Redundancy>
    <SATriggerMode></SATriggerMode>
</Policy>
</IPv6ISAKMPPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: 1—traffic-based(default). 2—auto.	N/A

IPsec/IPv4ISAKMPTemplatePolicies

This table contains IPv4 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```

<IPsec>
  <IPv4ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv4ISAKMPTemplatePolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv6ISAKMPTemplatePolicies

This table contains IPv6 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv6ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv6ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv4PolicyTemplates

This table contains IPv4 policy templates information.

XML structure

```
<IPsec>
  <IPv4PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
    </Template>
  </IPv4PolicyTemplates>
</IPsec>
```

```

    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <Redundancy>
      <InboundSyncInterval></InboundSyncInterval>
      <OutboundSyncInterval></OutboundSyncInterval>
    </Redundancy>
  </Template>
</IPv4PolicyTemplates>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—aggregation.	rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	reverse route inject (RRI) feature		true—Enable. false—Disable(default).	
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A

IPsec/IPv6PolicyTemplates

This table contains IPv6 policy templates information.

XML structure

```

<IPsec>
  <IPv6PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>

```



```

    <Name></Name>
    <Number></Number>
    <Mode></Mode>
</ACL>
<Remote>
    <Addr></Addr>
    <HostName></HostName>
</Remote>
<LocalAddr></LocalAddr>
<IKEProfile></IKEProfile>
<TransformsetList>
    <Transformset></Transformset>
</TransformsetList>
<QosPreClassify></QosPreClassify>
<RRI>
    <RRIEnable></RRIEnable>
    <Preference></Preference>
    <Tag></Tag>
</RRI>
<SADuration>
    <Seconds></Seconds>
    <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime></SAIdleTime>
<Redundancy>
    <InboundSyncInterval></InboundSyncInterval>
    <OutboundSyncInterval></OutboundSyncInterval>
</Redundancy>
</Template>
</IPv6PolicyTemplates>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule(default). 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A

IPsec/IPv4ManualPolicies

This table displays IPv4 manual policies.

XML structure

```

<IPsec>
  <IPv4ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
    </Policy>
  </IPv4ManualPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ManualPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name - Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv4 address	N/A
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable(default).	N/A

IPsec/IPv6ManualPolicies

This table displays IPv6 manual policies.

XML structure

```

<IPsec>
  <IPv6ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
    </Policy>
  </IPv6ManualPolicies>
</IPsec>

```

```

    </ACL>
    <RemoteAddress></RemoteAddress>
    <QosPreClassify></QosPreClassify>
  </Policy>
</IPv6ManualPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ManualPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name - Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv6 address	N/A
QosPreClass	QoS	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
sify	pre-classify feature		true—Enable. false—Disable(default).	

IPsec/IPv4ManualPolicyKeys

This table displays the IPv4 manual IPsec policy key information.

XML structure

```

<IPsec>
  <IPv4ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
        <Value></Value>
      </StringKey>
    </Key>
  </IPv4ManualPolicyKeys>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ManualPolicyKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to $2^{16}-1$.	N/A
Direction	SA's direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to $2^{32}-1$.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a 20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a

Column name	Column description	Column type	Data type and restrictions	Remarks
				16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of 1 to 117 characters.
StringKey	The string key	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/IPv6ManualPolicyKeys

This table displays the IPv6 manual IPsec policy key information.

XML structure

```

<IPsec>
  <IPv6ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>

```

```

        <Value></Value>
    </StringKey>
</Key>
</IPv6ManualPolicyKeys>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ManualPolicyKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2 ¹⁶ -1.	N/A
Direction	SA's direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2 ⁸ to 2 ³² -1.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a

Column name	Column description	Column type	Data type and restrictions	Remarks
				20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a 16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of 1 to 117 characters.
StringKey	The string key	Data structure	Members include: - Type - Value	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/ManualProfiles

This table displays the manual IPsec profile information.

XML structure

```
<IPsec>
  <ManualProfiles>
    <ManualProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
    </ManualProfile>
  </ManualProfiles>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	ManualProfiles
Table type	Multi-instance table
Row name	ManualProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Description	The description of the used IPsec profile.	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A

IPsec/ManualProfileKeys

This table displays the manual IPsec profile key information.

XML structure

```
<IPsec>
```

```

<ManualProfileKeys>
  <Key>
    <ProfileName></ProfileName>
    <Direction></Direction>
    <Protocol></Protocol>
    <SPI></SPI>
    <AuthorityHexKey>
      <Type></Type>
      <Value></Value>
    </AuthorityHexKey>
    <EncryptionHexKey>
      <Type></Type>
      <Value></Value>
    </EncryptionHexKey>
    <StringKey>
      <Type></Type>
      <Value></Value>
    </StringKey>
  </Key>
</ManualProfileKeys>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ManualProfileKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Direction	SA's direction	Index	- Enumeration: 1—Inbound. 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to $2^{32}-1$.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: - Type - Value	N/A
Type	The type of the key	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be a 16-byte hexadecimal string for HMAC-MD5, and a 20-byte hexadecimal string for HMAC-SHA1. The ciphertext authentication key is a case-sensitive string of 1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: - Type - Value	N/A
Type	The type of the key	N/A	Enumeration: 1—simple. 2—cipher.	N/A
Value	The value of the key	N/A	String.	The plaintext authentication key is case insensitive and must be an 8-byte hexadecimal string for DES-CBC, a 24-byte hexadecimal string for 3DES-CBC, a 16-byte hexadecimal string for AES128-CBC, a 24-byte hexadecimal string for AES192-CBC, and a 32-byte hexadecimal string for AES256-CBC. The ciphertext authentication key is a case-sensitive string of 1 to 117 characters.
StringKey	The string key	Data structure	Members include: - Type - Value	The key can only choose one of the hex and string type
Type	The type of the key	N/A	Enumeration: 1—simple.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—cipher.	
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of 1 to 255 characters. The ciphertext key is a case-sensitive string of 1 to 373 characters.

IPsec/IsakmpProfiles

This table displays ISAKMP IPsec profile information.

XML structure

```

<IPsec>
  <IsakmpProfiles>
    <IsakmpProfile>
      <Name></Name>
      <Description></Description>
      <TransformSetList>
        <TransformSet></TransformSet>
      </TransformSetList>
      <IkeProfileName></IkeProfileName>
    </IsakmpProfile>
  </IsakmpProfiles>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IsakmpProfiles
Table type	Multi-instance table
Row name	IsakmpProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name	Index	String, case-insensitive Length: 1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	The description of the used IPsec profile	N/A	String, case-sensitive Length: 1 to 80 characters	N/A
TransformsetList	The list of the IPsec transform sets		Members include: Transformset	N/A
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 1 to 63 characters	A maximum of six transform set names can be specified.
IkeProfileName	The IKE profile name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

IPsec/TunnelApplyProfile

This table displays the IPsec profile name in the ADVPN configuration for the specified tunnels.

XML structure

```

<IPsec>
  <TunnelApplyProfile>
    <ApplyProfile>
      <TunnelID></TunnelID>
      <IPsecPrfName></IPsecPrfName>
    </ApplyProfile>
  </TunnelApplyProfile>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	TunnelApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 1023	
IPsecPrfName	IPsec profile name	N/A	String Length: 0 to 63 characters The default is empty	Case-insensitive and contains only letters, digits, and dots (.).

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IPsec

IPsec/IPv4ApplyPolicies

This table displays IPv4 policies that have been applied to interface.

XML structure

```
<IPsec>
  <IPv4ApplyPolicies>
    <ApplyPolicy>
      <IfIndex></IfIndex>
      <Policy></Policy>
    </ApplyPolicy>
  </IPv4ApplyPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name	Index	String. Length: 1 to 63 characters.

IPsec/IPv6ApplyPolicies

This table displays IPv6 policies that have been applied to interface.

XML structure

```
<IPsec>
```

```

<IPv6ApplyPolicies>
  <ApplyPolicy>
    <IfIndex></IfIndex>
    <Policy></Policy>
  </ApplyPolicy>
</IPv6ApplyPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ApplyPolicies
Table type	Multi-instance table
Row name	ApplyPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer
Policy	IPsec policy name	Index	String. Length: 1 to 63 characters.

IPsec/IPv4SourceInterfaces

This table displays IPv4 policies that have been bound to a source interface.

XML structure

```

<IPsec>
  <IPv4SourceInterfaces>
    <IPv4SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv4SourceInterface>
  </IPv4SourceInterfaces>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4SourceInterfaces
Table type	Multi-instance table
Row name	IPv4SourceInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/IPv6SourceInterfaces

This table displays IPv6 policies that have been bound to a source interface.

XML structure

```
<IPsec>
  <IPv6SourceInterfaces>
    <IPv6SourceInterface>
      <PolicyName></PolicyName>
      <Interface></Interface>
    </IPv6SourceInterface>
  </IPv6SourceInterfaces>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6SourceInterfaces
Table type	Multi-instance table
Row name	IPv6SourceInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	IPsec policy name	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
Interface	The source interface name	N/A	String.	N/A

IPsec/InterfacesDFBit

This table displays the DF bit on the interface.

XML structure

```
<IPsec>
  <InterfacesDFBit>
    <InterfaceDFBit>
      <IfIndex></IfIndex>
      <DFBit></DFBit>
    </InterfaceDFBit>
  </InterfacesDFBit>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	InterfacesDFBit
Table type	Multi-instance table
Row name	InterfaceDFBit
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	N/A Some versions support interface name. For relevant information, see the XSD document

Column name	Column description	Column type	Data type and restrictions	Remarks
				of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on an interface	N/A	Enumeration: 1—clear. 2—copy. 3—set.	N/A

IPsec/GlobalConf

This table displays IPsec global configuration information.

XML structure

```

<IPsec>
  <GlobalConf>
    <DecryptCheck></DecryptCheck>
    <LoggingPacket></LoggingPacket>
    <Redundancy></Redundancy>
    <DFBit></DFBit>
    <AntiReplay>
      <State></State>
      <CheckWindow></CheckWindow>
    </AntiReplay>
    <SADuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <FlowRedirect></FlowRedirect>
    <EstablishTunnelLimit></EstablishTunnelLimit>
    <Fragmentation></Fragmentation>
  </GlobalConf>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalConf
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DecryptCheck	ACL checking for de-encapsulated IPsec packets.	N/A	Boolean: true—Enable. false—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: true—Enable. false—Disable.
Redundancy	IPsec redundancy	N/A	Boolean: true—Enable. false—Disable.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: 1—clear. 2—copy. 3—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: - State. - CheckWindow.
State	Anti-replay state	N/A	Boolean: true—Enable. false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: 1—Window size is 64. 2—Window size is 128. 3—Window size is 256. 4—Window size is 512. 5—Window size is 1024.
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800. The default is 3600.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295. The default is 1843200.
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.

Column name	Column description	Column type	Data type and restrictions
FlowRedirect	OpenFlow entry deployment	N/A	Boolean: true—Enable. false—Disable.
EstablishTunnelLimit	Limit the number of IPsec tunnels	N/A	Unsigned integer. Value range: 1 to 4294967295.
Fragmentation	Fragment MTU-exceeded packets	N/A	Enumeration: 1—Fragment packets before IPsec encapsulation. 2—Fragment packets after IPsec encapsulation.

IPsec/TransformSets

This table displays transform sets information.

XML structure

```

<IPsec>
  <TransformSets>
    <TransformSet>
      <Name></Name>
      <EncapMode></EncapMode>
      <Proto></Proto>
      <ESPAuthAlgList>
        <ESPAuthAlgItem></ESPAuthAlgItem>
      </ESPAuthAlgList>
      <ESPEncrAlgList>
        <ESPEncrAlgItem></ESPEncrAlgItem>
      </ESPEncrAlgList>
      <AHAuthAlgList>
        <AHAuthAlgItem></AHAuthAlgItem>
      </AHAuthAlgList>
      <PFS></PFS>
    </TransformSet>
  </TransformSets>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	TransformSets
Table type	Multi-instance table
Row name	TransformSet

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the IPsec transform set	Index	String. Length: 1 to 63 characters.	N/A
EncapMode	Encapsulation mode	N/A	Enumeration: 1—transport. 2—tunnel.	N/A
Proto	Security protocol	N/A	Enumeration: 1—Specifies the AH protocol. 2—Specifies using the ESP protocol first and then using the AH protocol. 3—Specifies the ESP protocol.	N/A
ESPAuthAlgList	The authentication algorithm for ESP	Data structure	Members include: ESPAuthAlgItem.	N/A
ESPAuthAlgItem	The authentication algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 ESPAuthAlgItem in ESPAuthAlgList.
ESPEncrAlgList	The encryption algorithm for ESP	Data structure	Members include: ESPEncrAlgItem.	N/A
ESPEncrAlgItem	The encryption algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table	Contains up to 6 in ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for ESP	Data structure	Members include: AHAuthAlgItem.	N/A
AHAuthAlgItem	The authentication algorithm number for AH	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 in AHAuthAlgList.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A

IPsec/IPv4ISAKMPPolicies

This table displays IPv4 ISAKMP policies information.

XML structure

```
<IPsec>
  <IPv4ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
      <SATriggerMode></SATriggerMode>
    </Policy>
  </IPv4ISAKMPPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPPolicies

Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule. 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the	Data structure	Members include:	You can only specify Addr or HostName, but

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPsec policy		- Addr. - HostName.	not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable.	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: 1—traffic-based. 2—auto.	N/A

IPsec/IPv6ISAKMPPolicies

This table displays IPv6 ISAKMP policies information.

XML structure

```

<IPsec>
  <IPv6ISAKMPPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>

```

```

        <Preference></Preference>
        <Tag></Tag>
    </RRI>
    <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
    </Redundancy>
    <SATriggerMode></SATriggerMode>
</Policy>
</IPv6ISAKMPPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Protection modes	N/A	Enumeration: 1—per-rule. 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: - true—Enable. - false—Disable.	N/A
RRI	The IPsec reverse route	Data structure	Members include: RRIEnable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	inject (RRI).		- Preference. - Tag	
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: 1—traffic-based. 2—auto.	N/A

IPsec/IPv4ISAKMPTemplatePolicies

This table displays IPv4 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv4ISAKMPTemplatePolicies>
    <TemplatePolicy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Template></Template>
    </TemplatePolicy>
  </IPv4ISAKMPTemplatePolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv6ISAKMPTemplatePolicies

This table displays IPv6 ISAKMP template policies information. ISAKMP template policy is a kind of IKE-based policy which is created by referencing an IPsec policy template.

XML structure

```
<IPsec>
  <IPv6ISAKMPTemplatePolicies>
    <TemplatePolicy>
```

```

    <Name></Name>
    <SeqNum></SeqNum>
    <Template></Template>
  </TemplatePolicy>
</IPv6ISAKMPTemplatePolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ISAKMPTemplatePolicies
Table type	Multi-instance table
Row name	TemplatePolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	The template policy name	Index	String. Length: 1 to 63 characters.
SeqNum	The sequence number for the template policy	Index	Unsigned integer. Value range: 1 to 65535.
Template	Specifies an IPsec policy template by its name	N/A	String. Length: 1 to 63 characters.

IPsec/IPv4PolicyTemplates

This table displays IPv4 policy templates information.

XML structure

```

<IPsec>
  <IPv4PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>

```

```

        <Number></Number>
        <Mode></Mode>
    </ACL>
    <Remote>
        <Addr></Addr>
        <HostName></HostName>
    </Remote>
    <LocalAddr></LocalAddr>
    <IKEProfile></IKEProfile>
    <TransformsetList>
        <Transformset></Transformset>
    </TransformsetList>
    <QosPreClassify></QosPreClassify>
    <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
    </RRI>
    <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
    </SADuration>
    <SAIdleTime></SAIdleTime>
    <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
    </Redundancy>
    </Template>
</IPv4PolicyTemplates>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule. 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv4 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv4 address	N/A
IKEProfile	Specify an IKE	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile for the IPsec policy		Length: 1 to 63 characters.	
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable.	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.	N/A
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSy	Outbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ncInterval	synchronization interval		Value range: 1000 to 100000. The default is 100000.	

IPsec/IPv6PolicyTemplates

This table displays IPv6 policy templates information.

XML structure

```

<IPsec>
  <IPv6PolicyTemplates>
    <Template>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <ACL>
        <Name></Name>
        <Number></Number>
        <Mode></Mode>
      </ACL>
      <Remote>
        <Addr></Addr>
        <HostName></HostName>
      </Remote>
      <LocalAddr></LocalAddr>
      <IKEProfile></IKEProfile>
      <TransformsetList>
        <Transformset></Transformset>
      </TransformsetList>
      <QosPreClassify></QosPreClassify>
      <RRI>
        <RRIEnable></RRIEnable>
        <Preference></Preference>
        <Tag></Tag>
      </RRI>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SAIdleTime></SAIdleTime>
      <Redundancy>
        <InboundSyncInterval></InboundSyncInterval>
        <OutboundSyncInterval></OutboundSyncInterval>
      </Redundancy>
    </Template>
  </IPv6PolicyTemplates>
</IPsec>

```



```
</IPv6PolicyTemplates>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6PolicyTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The ISAKMP policy name	Index	String. Length: 1 to 63 characters.	N/A
SeqNum	The sequence number for the IPsec policy	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	Description for an IPsec policy	N/A	String. Length: 1 to 80 characters.	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name. - Number. - Mode.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Mode	Protection modes	N/A	Enumeration: 1—per-rule. 2—per-host. 3—aggregation.	per-rule: One IPsec tunnel protects one data flow. The data flow permitted by an ACL rule is protected by one IPsec tunnel that is established solely for it. per-host: One IPsec tunnel protects one host-to-host data flow. One host-to-host data flow is identified by one ACL rule and protected by one IPsec tunnel established solely for it. This mode consumes more system resources when multiple data flows exist between two

Column name	Column description	Column type	Data type and restrictions	Remarks
				subnets to be protected. aggregation: One IPsec tunnel protects all data flows permitted by all the rules of an ACL. This mode is only used to communicate with old-version devices.
Remote	Remote IP address for the IPsec policy	Data structure	Members include: - Addr. - HostName.	You can only specify Addr or HostName, but not both.
Addr	Remote IP address	N/A	Ipv6 address	N/A
HostName	Remote host name	N/A	String. Length: 1 to 253 characters.	N/A
LocalAddr	Local IP address for the IPsec policy	N/A	Ipv6 address	N/A
IKEProfile	Specify an IKE profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: Transformset.	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable.	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: - RRIEnable. - Preference. - Tag	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: true—Enable. false—Disable.	N/A
Preference	The preference of the static routes	N/A	Unsigned integer. Value range: 1 to 255. Default value is 60.	N/A
Tag	The route tag for the static routes	N/A	Unsigned integer. Value range: 1 to 2 ³² -1. Default value is 0.	N/A
SADuration	IPsec SA life time	Data structure	Members include: Seconds.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			KiloBytes.	
Seconds	The time-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.	N/A
KiloBytes	The traffic-based lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.	N/A
SAIdleTime	SA idle timeout function	N/A	Unsigned integer. Value range: 60 to 86400.	N/A
Redundancy	IPsec redundancy function	Data structure	Members include: - InboundSyncInterval. - OutboundSyncInterval.	N/A
InboundSyncInterval	Inbound synchronization interval	N/A	Unsigned integer. Value range: 0 to 1000. The default is 1000.	N/A
OutboundSyncInterval	Outbound synchronization interval	N/A	Unsigned integer. Value range: 1000 to 100000. The default is 100000.	N/A

IPsec/IPv4ManualPolicies

This table displays IPv4 manual policies.

XML structure

```

<IPsec>
  <IPv4ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
    </Policy>
  </IPv4ManualPolicies>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IPv4ManualPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an ACL for an IPsec policy	Data structure	Members include: - Name - Number.	You can only specify Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv4 address	N/A
QoSPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable.	N/A

IPsec/IPv6ManualPolicies

This table displays IPv6 manual policies.

XML structure

```
<IPsec>
  <IPv6ManualPolicies>
    <Policy>
      <Name></Name>
      <SeqNum></SeqNum>
      <Description></Description>
      <Transformset></Transformset>
      <ACL>
        <Name></Name>
        <Number></Number>
      </ACL>
      <RemoteAddress></RemoteAddress>
      <QosPreClassify></QosPreClassify>
    </Policy>
  </IPv6ManualPolicies>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ManualPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SeqNum	The policy serial number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	The policy description	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transformset	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A
ACL	Reference an	Data	Members include:	You can only specify

Column name	Column description	Column type	Data type and restrictions	Remarks
	ACL for an IPsec policy	structure	- Name - Number.	Name or Number, but not both.
Name	ACL name	N/A	String. Length: 1 to 63 characters. Case insensitive.	N/A
Number	ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
RemoteAddress	Remote IP address	N/A	Ipv6 address	N/A
QosPreClassify	QoS pre-classify feature	N/A	Boolean: true—Enable. false—Disable.	N/A

IPsec/IPv4ManualPolicyKeys

This table displays the IPv4 manual IPsec policy key information.

XML structure

```

<IPsec>
  <IPv4ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
      </StringKey>
    </Key>
  </IPv4ManualPolicyKeys>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec

Table name	IPv4ManualPolicyKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to $2^{16}-1$.	N/A
Direction	SA's direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to $2^{32}-1$.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
StringKey	The string key	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A

IPsec/IPv6ManualPolicyKeys

This table displays the IPv6 manual IPsec policy key information.

XML structure

```
<IPsec>
  <IPv6ManualPolicyKeys>
    <Key>
      <PolicyName></PolicyName>
      <SequenceNum></SequenceNum>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
      </StringKey>
    </Key>
  </IPv6ManualPolicyKeys>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPv6ManualPolicyKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	The policy name.	Index	String. Length: 1 to 63 characters. Case insensitive.	N/A
SequenceNum	The policy serial number	Index	Unsigned integer. Value range: 1 to 2 ¹⁶ -1.	N/A
Direction	SA's direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to $2^{32}-1$.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
StringKey	The string key	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A

IPsec/ManualProfiles

This table displays the manual IPsec profile information.

XML structure

```

<IPsec>
  <ManualProfiles>
    <ManualProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
    </ManualProfile>
  </ManualProfiles>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ManualProfiles
Table type	Multi-instance table
Row name	ManualProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Description	The description of the used IPsec profile.	N/A	String. Length: 1 to 80 characters. Case sensitive	N/A
Transform set	The name of the IPsec transform set	N/A	String. Length: 1 to 63 characters. Case insensitive	N/A

IPsec/ManualProfileKeys

This table displays the manual IPsec profile key information.

XML structure

```
<IPsec>
  <ManualProfileKeys>
    <Key>
      <ProfileName></ProfileName>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <AuthorityHexKey>
        <Type></Type>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
      </EncryptionHexKey>
      <StringKey>
```

```

        <Type></Type>
    </StringKey>
</Key>
</ManualProfileKeys>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	ManualProfileKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	The IPsec profile name.	Index	String. Length: 1 to 63 characters. Case insensitive	N/A
Direction	SA's direction	Index	- Enumeration: 1—Inbound. 2—Outbound.	N/A
Protocol	Security protocol	Index	Enumeration: 1—ESP. 2—AH.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2^8 to $2^{32}-1$.	N/A
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: Type	N/A
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A
StringKey	The string key	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
		structure	Type	
Type	The key type	N/A	Enumeration: 1—simple. 2—cipher.	N/A

IPsec/Tunnels

This table displays IPsec tunnels information.

XML structure

```

<IPsec>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <AddrType></AddrType>
      <Status></Status>
      <SAMode></SAMode>
      <PFS></PFS>
      <ACLNumber></ACLNumber>
      <LocalAddr></LocalAddr>
      <RemoteAddr></RemoteAddr>
      <SrcFlow>
        <Proto></Proto>
        <Addr></Addr>
        <MaskLen></MaskLen>
        <Port></Port>
      </SrcFlow>
      <DestFlow>
        <Proto></Proto>
        <Addr></Addr>
        <MaskLen></MaskLen>
        <Port></Port>
      </DestFlow>
      <SecurityProto></SecurityProto>
      <SPI>
        <ESPInbound></ESPInbound>
        <ESPOutbound></ESPOutbound>
        <AHInbound></AHInbound>
        <AHOutbound></AHOutbound>
      </SPI>
      <PolicyName></PolicyName>
      <PolicySeqNum></PolicySeqNum>
      <IfIndex></IfIndex>
      <InsideVRF></InsideVRF>
    </Tunnel>
  </Tunnels>
</IPsec>

```

```

    </Tunnel>
  </Tunnels>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
AddrType	IP protocol type	N/A	Enumeration: 1—Ipv4Address. 2—Ipv6Address.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: 1—active. 2—standby.
SAMode	SA negotiation mode	N/A	Enumeration: 1—Manual. 2—ISAKMP. 3—Template.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.
ACLNumber	ACL Number	N/A	Unsigned integer. Value range: 3000 to 3999.
LocalAddr	Source IP address of the IPsec tunnel	N/A	Ipv4 address or Ipv6 address
RemoteAddr	Destination IP address of the IPsec tunnel	N/A	Ipv4 address or Ipv6 address
SrcFlow	Source data flow protected by the IPsec tunnel	Data structure	Members include: - Proto. - Addr. - MaskLen. - Port.

Column name	Column description	Column type	Data type and restrictions
Proto	Source protocol type	N/A	Unsigned integer. Value range: 0 to 255.
Addr	Source IP address	N/A	Ipv4 address or Ipv6 address
MaskLen	Source IP address mask length	N/A	Unsigned integer.
Port	Source port number	N/A	Unsigned integer. Value range: 0 to 65535.
DestFlow	Destination data flow protected by the IPsec tunnel	Data structure	Members include: • Proto. • Addr. • MaskLen. • Port.
Proto	Destination protocol type	N/A	Unsigned integer. Value range: 0 to 255.
Addr	Destination IP address	N/A	Ipv4 address or Ipv6 address
MaskLen	Destination IP address mask length	N/A	Unsigned integer.
Port	Destination port number	N/A	Unsigned integer. Value range: 0 to 65535.
SecurityProto	IPsec Security Protocol	N/A	Enumeration: • 1—AH. • 2—AH-ESP. • 3—ESP.
SPI	Security Parameter Index	Data structure	Members include: • ESPInbound. • ESPOutbound. • AHInbound. • AHOutbound.
ESPInbound	ESP inbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.
ESPOutbound	ESP outbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.
AHInbound	AH inbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.
AHOutbound	AH Outbound SPI	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.
PolicyName	The ISAKMP policy name	N/A	String. Length: 1 to 63 characters.
PolicySeqN	The sequence	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
um	number for the IPsec policy		Value range: 1 to 65535. N/A
IfIndex	Interface index	N/A	Unsigned integer.
InsideVRF	Inside vpn-instance	N/A	String. Length: 1 to 31 characters.

IPsec/SAs

This table displays IPsec SA information.

XML structure

```

<IPsec>
  <SAs>
    <SA>
      <TunnelID></TunnelID>
      <SAIndex></SAIndex>
      <Direction></Direction>
      <Proto></Proto>
      <SPI></SPI>
      <SAMode></SAMode>
      <EncapMode></EncapMode>
      <PFS></PFS>
      <AuthAlg></AuthAlg>
      <EncrAlg></EncrAlg>
      <SADuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SADuration>
      <SARemainingDuration>
        <Seconds></Seconds>
        <KiloBytes></KiloBytes>
      </SARemainingDuration>
      <RemainingIdleTime></RemainingIdleTime>
      <NatTraversal></NatTraversal>
      <AntiReplay>
        <State></State>
        <CheckWindow></CheckWindow>
      </AntiReplay>
      <PathMTU></PathMTU>
      <MaxRcvSN></MaxRcvSN>
      <MaxSendSN></MaxSendSN>
      <Status></Status>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </SA>
  </SAs>
</IPsec>

```

```

    <PolicySeqNum></PolicySeqNum>
  </SA>
</SAs>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	SAs
Table type	Multi-instance table
Row name	SA
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID which the SA belongs to	Index	Unsigned integer.
SAIndex	SA index	Index	Unsigned integer.
Direction	SA's direction	N/A	Enumeration: 1—Inbound. 2—Outbound.
Proto	Security protocol	N/A	Enumeration: 1—AH. 2—ESP.
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.
SAMode	SA negotiation mode	N/A	Enumeration: 1—Manual. 2—ISAKMP. 3—Template.
EncapMode	Encapsulation mode	N/A	Enumeration: 1—transport. 2—tunnel.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.
AuthAlg	Authentication algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.
EncrAlg	Encryption algorithm	N/A	The algorithm number is defined by IPsecCapabilities table.

Column name	Column description	Column type	Data type and restrictions
SADuration	IPsec SA life time	Data structure	Members include: - Seconds. - KiloBytes.
Seconds	The time-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 180 to 604800.
KiloBytes	The traffic-based global lifetime of IPsec SA	N/A	Unsigned integer. Value range: 2560 to 4294967295.
SARemainingDuration	Remaining IPsec SA lifetime	Data structure	Members include: - Seconds. - KiloBytes.
Seconds	Remaining IPsec SA lifetime in seconds	N/A	Unsigned integer. Value range: 180 to 604800.
KiloBytes	Remaining IPsec SA lifetime in kilobytes	N/A	Unsigned integer. Value range: 2560 to 4294967295.
RemainingIdleTime	Remaining IPsec SA idle time	N/A	Unsigned integer. Value range: 0 to 86400.
NatTraversal	UDP encapsulation used for NAT traversal	N/A	Boolean: true—Enable. false—Disable.
AntiReplay	Anti-replay configuration	Data structure	Members include: - State. - CheckWindow.
State	Anti-replay state	N/A	Boolean: true—Enable. false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: 1—Window size is 64. 2—Window size is 128. 3—Window size is 256. 4—Window size is 512. 5—Window size is 1024.
PathMTU	Path MTU of the IPsec SA	N/A	Unsigned integer.
MaxRcvSN	Max sequence number in the received packets	N/A	Unsigned integer.
MaxSendSN	Max sequence number in the	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	sent packets		
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: 1—active. 2—standby.
IfIndex	Interface index	N/A	Unsigned integer.
PolicyName	Name of the used IPsec policy	N/A	String. Length: 1 to 63 characters.
PolicySeqNum	Sequence number of the IPsec policy entry	N/A	Unsigned integer. Value range: 1 to 65535.

IPsec/GlobalSAs

This table displays information about IPsec SAs.

XML structure

```

<IPsec>
  <GlobalSAs>
    <GlobalSA>
      <TunnelID></TunnelID>
      <SAIndex></SAIndex>
      <Direction></Direction>
      <Protocol></Protocol>
      <SPI></SPI>
      <PFS></PFS>
      <AuthorityAlg></AuthorityAlg>
      <EncryptionAlg></EncryptionAlg>
      <Status></Status>
      <ProfileName></ProfileName>
    </GlobalSA>
  </GlobalSAs>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalSAs
Table type	Multi-instance table
Row name	GlobalSA

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	IPsec tunnel ID	Index	Unsigned integer.	N/A
SAIndex	SA index	Index	Unsigned integer.	N/A
Direction	SA's direction	N/A	Enumeration: 1—Inbound. 2—Outbound	N/A
Protocol	Security protocol	N/A	Enumeration: 1—AH. 2—ESP.	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
PFS	Perfect Forward Secrecy	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
AuthorityAlg	Authentication algorithm	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
EncryptionAlg	Encryption algorithm	N/A	Unsigned integer.	The algorithm number is defined by IPsecCapabilities table.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: 1—active. 2—standby.	N/A
ProfileName	The IPsec profile name.	N/A	String. Length: 1 to 63 characters.	N/A

IPsec/Count

This table displays IPsec SA and Tunnel count information.

XML structure

```

<IPsec>
  <Count>
    <SACount></SACount>
    <TunnelCount></TunnelCount>
  </Count>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	Count
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SACount	The number of IPsec SAs	N/A	Unsigned integer.
TunnelCount	The number of IPsec tunnels	N/A	Unsigned integer.

IPsec/GlobalStats

This table displays IPsec global statistics information.

XML structure

```
<IPsec>
  <GlobalStats>
    <RcvPkts></RcvPkts>
    <SentPkts></SentPkts>
    <RcvBytes></RcvBytes>
    <SentBytes></SentBytes>
    <DropRcvPkts></DropRcvPkts>
    <DropSentPkts></DropSentPkts>
    <DropPktsStats>
      <NoAvailableSA></NoAvailableSA>
      <WrongSA></WrongSA>
      <InvalidLen></InvalidLen>
      <AuthFailure></AuthFailure>
      <EncapFailure></EncapFailure>
      <DecapFailure></DecapFailure>
      <Replayed></Replayed>
      <ACLCheckFailure></ACLCheckFailure>
      <MTUCheckFailure></MTUCheckFailure>
      <LoopbackLimitExceeded></LoopbackLimitExceeded>
      <CryptospeedLimitExceeded></CryptospeedLimitExceeded>
    
```

```

    </DropPktsStats>
  </GlobalStats>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	GlobalStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RcvPkts	Number of received sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
SentPkts	Number of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
RcvBytes	Number of bytes of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
SentBytes	Number of bytes of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropRcvPkts	Number of dropped IPsec-protected received packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropSentPkts	Number of dropped IPsec-protected sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropPktsStats	Dropped packets statistics	Data structure	Members include: - NoAvailableSA. - WrongSA. - InvalidLen. - AuthFailure. - EncapFailure.

Column name	Column description	Column type	Data type and restrictions
			- DecapFailure. - Replayed. - ACLCheckFailure. - MTUCheckFailure. - LoopbackLimitExceeded.
NoAvailableSA	Number of dropped packets due to lack of available IPsec SA	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
WrongSA	Number of dropped packets due to wrong IPsec SA	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
InvalidLen	Number of dropped packets due to invalid packet length	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
AuthFailure	Number of dropped packets due to authentication failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
EncapFailure	Number of dropped packets due to encapsulation failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DecapFailure	Number of dropped packets due to decapsulation failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
Replayed	Number of dropped replayed packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
ACLCheckFailure	Number of dropped packets due to ACL check failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
MTUCheckFailure	Number of dropped packets due to MTU check failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
LoopbackLimitExceeded	Number of dropped packets due to loopback limit	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

Column name	Column description	Column type	Data type and restrictions
	exceeded		
CryptospeedLimitExceeded	Number of dropped packets due to Cryptospeed exceeded	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

IPsec/TunnelStats

This table displays IPsec tunnel statistics information.

XML structure

```

<IPsec>
  <TunnelStats>
    <Stats>
      <TunnelID></TunnelID>
      <RcvPkts></RcvPkts>
      <SentPkts></SentPkts>
      <RcvBytes></RcvBytes>
      <SentBytes></SentBytes>
      <DropRcvPkts></DropRcvPkts>
      <DropSentPkts></DropSentPkts>
      <DropPktsStats>
        <NoAvailableSA></NoAvailableSA>
        <WrongSA></WrongSA>
        <InvalidLen></InvalidLen>
        <AuthFailure></AuthFailure>
        <EncapFailure></EncapFailure>
        <DecapFailure></DecapFailure>
        <Replayed></Replayed>
        <ACLCheckFailure></ACLCheckFailure>
        <MTUCheckFailure></MTUCheckFailure>
        <LoopbackLimitExceeded></LoopbackLimitExceeded>
        <CryptospeedLimitExceeded></CryptospeedLimitExceeded>
      </DropPktsStats>
    </Stats>
  </TunnelStats>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	TunnelStats

Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TunnelID	IPsec tunnel ID	Index	Unsigned integer.
RcvPkts	Number of received sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
SentPkts	Number of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
RcvBytes	Number of bytes of received IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
SentBytes	Number of bytes of sent IPsec-protected packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropRcvPkts	Number of dropped IPsec-protected received packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropSentPkts	Number of dropped IPsec-protected sent packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DropPktsStats	Dropped packets statistics	Data structure	Members include: - NoAvailableSA. - WrongSA. - InvalidLen. - AuthFailure. - EncapFailure. - DecapFailure. - Replayed. - ACLCheckFailure. - MTUCheckFailure. - LoopbackLimitExceeded.
NoAvailableSA	Number of dropped packets due to lack of	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

Column name	Column description	Column type	Data type and restrictions
	available IPsec SA		
WrongSA	Number of dropped packets due to wrong IPsec SA	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
InvalidLen	Number of dropped packets due to invalid packet length	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
AuthFailure	Number of dropped packets due to authentication failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
EncapFailure	Number of dropped packets due to encapsulation failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
DecapFailure	Number of dropped packets due to decapsulation failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
Replayed	Number of dropped replayed packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
ACLCheckFailure	Number of dropped packets due to ACL check failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
MTUCheckFailure	Number of dropped packets due to MTU check failure	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
LoopbackLimitExceeded	Number of dropped packets due to loopback limit exceeded	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.
CryptospeedLimitExceeded	Number of dropped packets due to Cryptospeed exceeded	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

IPsec/IPsecCapabilities

This table displays all the algorithm capabilities that the IPsec module support.

XML structure

```
<IPsec>
  <IPsecCapabilities>
    <IPsecCapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
    </IPsecCapability>
  </IPsecCapabilities>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec
Table name	IPsecCapabilities
Table type	Multi-instance table
Row name	IPsecCapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AlgID	IPsec supports algorithm ID	Index	Unsigned .
AlgName	IPsec supports algorithm name	N/A	String. Length: 1 to 255 characters.

IPsec/DeviceCapabilities

This table displays the capabilities of device.

XML structure

```
<IPsec>
  <DeviceCapabilities>
    <SupportRedundancy></SupportRedundancy>
    <SupportFlowRedirect></SupportFlowRedirect>
  </DeviceCapabilities>
</IPsec>
```

```

    </DeviceCapabilities>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	DeviceCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportRedundancy	Support for redundancy	N/A	Boolean: true—The device supports redundancy. false—The device does not support redundancy.
SupportFlowRedirect	Support for OpenFlow entry deployment	N/A	Boolean: true—The device supports OpenFlow entry deployment. false—The device does not support OpenFlow entry deployment.

IPsec/IsakmpProfiles

This table displays ISAKMP IPsec profile information.

XML structure

```

<IPsec>
  <IsakmpProfiles>
    <IsakmpProfile>
      <Name></Name>
      <Description></Description>
      <TransformSet></TransformSet>
      <IkeProfileName></IkeProfileName>
    </IsakmpProfile>
  </IsakmpProfiles>
</IPsec>

```

Table description

Item	Description
Feature name	IPsec
Table name	IsakmpProfiles
Table type	Multi-instance table
Row name	IsakmpProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The IPsec profile name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Description	The description of the used IPsec profile	N/A	String, case-sensitive Length: 0 to 80 characters	N/A
Transformset	The name of the IPsec transform set	N/A	String, case-insensitive Length: 0 to 63 characters	N/A
IkeProfileName	The ike profile name	N/A	String, case-insensitive Length: 0 to 63 characters	N/A

IPsec/TunnelApplyProfile

This table displays the IPsec profile name in the ADVPN configuration for the specified tunnels.

XML structure

```
<IPsec>
  <TunnelApplyProfile>
    <ApplyProfile>
      <TunnelID></TunnelID>
      <IPsecPrfName></IPsecPrfName>
    </ApplyProfile>
  </TunnelApplyProfile>
</IPsec>
```

Table description

Item	Description
Feature name	IPsec

Table name	TunnelApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	The tunnel ID	Index	String, case-insensitive Length: 1 to 63 characters	N/A
IPsecPrfName	IPsec profile name	N/A	String, case-sensitive Length: 0 to 63 characters	N/A

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IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

This table contains information about IPv4 addresses.

XML structure

```
<IPV4ADDRESS>
  <Ipv4Addresses>
    <Ipv4Address>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <AddressOrigin></AddressOrigin>
    </Ipv4Address>
  </Ipv4Addresses>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4Addresses
Table type	Multi-instance table
Row name	Ipv4Address
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 address mask.	N/A	String, dotted decimal notation.	N/A
AddressOrigin	The way how the IPv4 address is obtained.	N/A	Enumeration: 1—Manual. 2—Manual-sub.	N/A

IPV4ADDRESS/IPv4AddressPPPNegotiate

This table achieves IPv4 address allocation through PPP negotiation.

XML Structure

```

<IPV4ADDRESS>
  <IPv4AddressPPPNegotiate>
    <AddressPPPNegotiate>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressPPPNegotiate>
  </IPv4AddressPPPNegotiate>
</IPV4ADDRESS>

```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	AddressPPPNegotiate
Table type	Multi-instance table
Row name	AddressPPPNegotiate
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ConfigOption	Whether the PPP Negotiate function is enabled.	N/A	Boolean: true false (default)	After PPP negotiation is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/ IPv4AddressCellular

This table achieves IPv4 address allocation through cellular.

XML Structure

```

<IPV4ADDRESS>
  <IPv4AddressCellular>
    <AddressCellular>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressCellular>
  </IPv4AddressCellular>
</IPV4ADDRESS>

```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ConfigOption	Whether the Cellular function is enabled.	N/A	Boolean: true false (default)	After Cellular is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/IPv4AddressUnnumbered

This table achieves IPv4 address which is shared with another interface.

XML Structure

```

<IPV4ADDRESS>
  <IPv4AddressUnnumbered>
    <AddressUnnumbered>
      <IfIndex></IfIndex>
      <UnnumberedIfIndex></UnnumberedIfIndex>
    </AddressUnnumbered>
  </IPv4AddressUnnumbered>
</IPV4ADDRESS>

```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressUnnumbered
Table type	Multi-instance table
Row name	AddressUnnumbered
Restrictions	This table supports only Layer 3 interfaces.

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
UnnumberedIfIndex	Interface index.	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

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IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

This table contains IPv4 address information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4Addresses>
    <Ipv4Address>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <AddressOrigin></AddressOrigin>
    </Ipv4Address>
  </Ipv4Addresses>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4Addresses
Table type	Multi-instance table
Row name	Ipv4Address
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	N/A
Ipv4Mask	IPv4 address mask.	N/A	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressOrigin	The way how the IPv4 address is obtained.	N/A	Enumeration: 0—Other. 1—Manual. 2—Manual-sub. 3—DHCP. 4—BOOTP. 5—Negotiate. 6—Unnumbered. 7—VRRP.	N/A

IPV4ADDRESS/ Ipv4AddressSpecification

This table contains IPv4 address specification information.

XML structure

```

<IPV4ADDRESS>
  <Ipv4AddressSpecification>
    <SupportDHCP></SupportDHCP>
  </Ipv4AddressSpecification>
</IPV4ADDRESS>

```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	Ipv4AddressSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDHCP	Support for DHCP client.	N/A	Boolean: - true - false	N/A

IPV4ADDRESS/IPv4AddressPPPNegotiate

This table achieves IPv4 address allocation through PPP negotiation

.XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressPPPNegotiate>
    <AddressPPPNegotiate>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressPPPNegotiate>
  </IPv4AddressPPPNegotiate>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	AddressPPPNegotiate
Table type	Multi-instance table
Row name	AddressPPPNegotiate
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ConfigOption	Whether the PPP Negotiate function is enabled.	N/A	Boolean: • true • false (default)	N/A.

IPV4ADDRESS/ IPv4AddressCellular

This table achieves IPv4 address allocation through cellular.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressCellular>
    <AddressCellular>
      <IfIndex></IfIndex>
      <ConfigOption></ConfigOption>
    </AddressCellular>
  </IPv4AddressCellular>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressCellular
Table type	Multi-instance table
Row name	AddressCellular
Restrictions	This table supports only ethernet channel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	NameAndIndexUnion.	Only ethernet channel interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
ConfigOption	Whether the Cellular function is enabled.	N/A	Boolean: true false (default)	After Cellular is enabled on the interface, the IP address assigned to the interface will be deleted.

IPV4ADDRESS/IPv4AddressUnnumbered

This table achieves IPv4 address which is shared with another interface.

XML Structure

```
<IPV4ADDRESS>
  <IPv4AddressUnnumbered>
    <AddressUnnumbered>
      <IfIndex></IfIndex>
      <UnnumberedIfIndex></UnnumberedIfIndex>
    </AddressUnnumbered>
  </IPv4AddressUnnumbered>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressUnnumbered
Table type	Multi-instance table
Row name	AddressUnnumbered
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
UnnumberedIfIndex	Interface index.	N/A	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

IPV4ADDRESS/IPv4AddressInterfaceRelation

This table contains IPv4 address and interface relation information.

XML structure

```
<IPV4ADDRESS>
  <Ipv4AddressInterfaceRelation>
    <AddressInterfaceRelation>
      <VrfIndex></VrfIndex>
      <Ipv4Address></Ipv4Address>
      <AddressOrigin></AddressOrigin>
      <IfIndex></IfIndex>
    </AddressInterfaceRelation>
  </Ipv4AddressInterfaceRelation>
</IPV4ADDRESS>
```

Table description

Item	Description
Feature name	IPV4ADDRESS
Table name	IPv4AddressInterfaceRelation
Table type	Multi-instance table
Row name	AddressInterfaceRelation
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	The value of 0 specifies the public network. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VrfIndex, see L3vpn in L3vpn NETCONF XML API Data Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String, dotted decimal notation.	It must be a host ip address.
AddressOrigin	The way how the IPv4 address is obtained.	Index	Enumeration: 1—Manual. 2—Manual-sub. 3—DHCP. 4—BOOTP. 5—Negotiate. 6—Unnumbered. 7—VRRP.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

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IPV6ADDRESS

IPV6ADDRESS/Ipv6AddressesConfig

This table contains configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesConfig>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6AddressesConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesConfig
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	It must be configured as valid IPv6 prefix when the AddressOrigin column is 2.
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: • 1—AssignedIP. • 2—AssignedEUI64IP. • 3—LinklocalIP.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	Required when the AddressOrigin column is 1 or 2 . Value range is 1 to 64 when the AddressOrigin column is 2. It can not be configured when the AddressOrigin column is 3 . The delete and remove operations do not support this column. The merge, create, and replace operations must include this column.
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: • true • false (default)	It can not be configured when the AddressOrigin column is 2 or 3 . Can not be modified. The delete and remove operations do not support this column. The merge, create, and replace operations must include this column.

IPV6ADDRESS/Ipv6AddressesAuto

This table contains the information about IPv6 addresses autoconfiguration.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesAuto>
    <AutoAddress>
      <IfIndex></IfIndex>
      <Auto></Auto>
      <AutoLinkLocal></AutoLinkLocal>
    </AutoAddress>
  </Ipv6AddressesAuto>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesAuto
Table type	Multi-instance table
Row name	AutoAddress
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Auto	Whether the stateless address autoconfiguration function is enabled on an interface.	N/A	Boolean: • true • false (default)	N/A
AutoLinkLocal	Whether or not generate a link-local address on an interface automatically.	N/A	Boolean: • true • false (default)	N/A

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XML structure	3
Table description	3
Columns	3
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XML structure	4
Table description	4
Columns	4

IPV6ADDRESS

IPV6ADDRESS/Ipv6AddressesConfig

This table contains configuration information about IPv6 addresses.

XML structure

```
<IPV6ADDRESS>
  <Ipv6AddressesConfig>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6AddressesConfig>
</IPV6ADDRESS>
```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesConfig
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: • 1—AssignedIP. • 2—AssignedEUI64IP. • 3—LinklocalIP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: true false	N/A

IPV6ADDRESS/Ipv6AddressesAuto

This table contains the information about IPv6 addresses autoconfiguration.

XML structure

```

<IPV6ADDRESS>
  <Ipv6AddressesAuto>
    <AutoAddress>
      <IfIndex></IfIndex>
      <Auto></Auto>
      <AutoLinkLocal></AutoLinkLocal>
    </AutoAddress>
  </Ipv6AddressesAuto>
</IPV6ADDRESS>

```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressesAuto
Table type	Multi-instance table
Row name	AutoAddress
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Auto	Whether the stateless address autoconfiguration function is enabled on an interface.	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkLocal	Whether or not generate a link-local address on an interface automatically.	N/A	Boolean: true false	N/A

IPV6ADDRESS/IPv6Addresses

This table contains information about IPv6 addresses.

XML structure

```

<IPV6ADDRESS>
  <Ipv6Addresses>
    <AddressEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <AddressOrigin></AddressOrigin>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <AnycastFlag></AnycastFlag>
    </AddressEntry>
  </Ipv6Addresses>
</IPV6ADDRESS>

```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6Addresses
Table type	Multi-instance table
Row name	AddressEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressOrigin	The way how the IPv6 address is obtained.	Index	Enumeration: 1—AssignedIP. 2—AssignedEUI64IP. 3—LinklocalIP. 4—AssignedAutoIP. 5—DHCPv6.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
AnycastFlag	Whether the IPv6 address is an anycast address.	N/A	Boolean: - true - false	N/A

IPV6ADDRESS/ Ipv6AddressSpecification

This table contains IPv6 address specification information.

XML structure

```

<IPV6ADDRESS>
  <Ipv6AddressSpecification>
    <SupportDHCPv6></SupportDHCPv6>
  </Ipv6AddressSpecification>
</IPV6ADDRESS>

```

Table description

Item	Description
Feature name	IPV6ADDRESS
Table name	Ipv6AddressSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDHC Pv6	Support for IPv6 DHCP client.	N/A	Boolean: - true - false	N/A

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XML structure	2
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IRF

IRF/ConvertMode

This table contains IRF mode convert information.

Please save the configuration before do this action.

When you convert the IRF mode the device will reboot automatically.

XML structure

```
<IRF>
  <ConvertMode>
    <StackMode></StackMode>
    <ConvertCfg></ConvertCfg>
  </ConvertMode>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	ConvertMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StackMode	Stack mode will be changed to.	N/A	Boolean: true false	true: Change to stack mode. false: Change to standalone mode. Also available in standalone mode.
ConvertCfg	Whether or not convert the configuration before change the stack mode.	N/A	Boolean: true false	true: Convert configuration file before changing stack mode. false: Don't convert configuration file before changing stack mode. Also available in standalone mode.

IRF/PortConfiguration

This table contains IRF port configuration activate information.

Please save the configuration before do this action.

After you activated the IRF configuration, the device maybe auto merge and reboot.

XML structure

```
<IRF>
  <PortConfiguration>
    <Activate />
  </PortConfiguration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	PortConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Activate	Activate the current IRF configuration.	N/A	This column must be empty.	N/A

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XML structure.....	4
Table description.....	4
Columns.....	4

IRF

IRF/Configuration

This table contains IRF global configuration information.

XML structure

```
<IRF>
  <Configuration>
    <AutoMerge></AutoMerge>
    <AutoUpgrade></AutoUpgrade>
    <Domain></Domain>
    <LinkDelay></LinkDelay>
    <MacPersist></MacPersist>
  </Configuration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoMerge	State of the auto merge function	N/A	EnableState. Default: variant between products.	enable: The IRF fabric automatically reboots its member devices when it fails in the master election during an IRF fabric merge. disable: Manual reboot is required to complete an IRF fabric merge.

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade	Status of the software auto-update function	N/A	EnableState. Default: variant between products.	enable: The master device automatically pushes its software images to the device you are adding to the IRF fabric. disable: You must manually make sure the joining device uses the same software images as the master device. If not, the new device cannot join the IRF fabric.
Domain	Domain ID for the IRF fabric	N/A	Unsigned integer. Value range: 0 to 4294967295 Default: 0	N/A
LinkDelay	IRF link down report delay	N/A	Unsigned integer. Value range: 0 to 10000. Unit: milliseconds Default: variant between products.	If the interval is set to 0, link down events are reported without any delay.
MacPersist	IRF bridge MAC persistence setting	N/A	Enumeration. 1—Timer (default) 2—Always 3—No	Timer: A 6 minutes timer, bridge MAC address of the IRF fabric persists for 6 minutes after the master leaves. Always: Bridge MAC address of the IRF fabric does not change after the master leaves. No: Bridge MAC address of the new master replaces the original one as soon as the old master leaves.

IRF/Members

This table contains configuration of the IRF members.

XML structure

```

<IRF>
  <Members>
    <Member>
      <MemberID></MemberID>
      <NewMemberID></NewMemberID>
      <Description></Description>
    </Member>
  </Members>
</IRF>

```

```

        <Priority></Priority>
    </Member>
</Members>
</IRF>

```

Table description

Item	Description
Feature name	IRF
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID.	Index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. Stand-alone mode: 0.	The current member ID of the device. The maximum member ID is variant between products. Also available in stand-alone mode.
NewMemberID	Member ID assigned to the device.	N/A	Unsigned integer. Value range: 1 to 32. Default: Stack mode: MemberID. Stand-alone mode: 1	This member ID takes effect at reboot. The maximum member ID is variant between products. Also available in stand-alone mode.
Description	Description for the member device.	N/A	String. Max length: 1 to 127 characters.	A string of 1 to 127 ASCII characters.
Priority	Member priority.	N/A	Unsigned integer. Value range: 1 to 32. Default: 1.	Also available in stand-alone mode.

IRF/IRFPorts

This table contains configuration of the IRF ports.

XML structure

```
<IRF>
  <IRFPorts>
    <IRFPort>
      <MemberID></MemberID>
      <Port></Port>
      <Interface>
        <IfName></IfName>
        <MDCName></MDCName>
        <Mode></Mode>
      </Interface>
    </IRFPort>
  </IRFPorts>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	IRFPorts
Table type	Multi-instance table
Row name	IRFPort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	Index	Unsigned integer. Value range: Stack mode: 1 to 32. Default: 1. Stand-alone mode: 0.	The current member ID of the device. Also available in stand-alone mode.
Port	IRF port number	Index	Unsigned integer. Value range: 1 to 2	1: IRF port 1 2: IRF port 2 Also available in stand-alone mode.
Interface	Physical port of an IRF port	Data structure	Members: - IfName - MDCName - Mode	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	Physical port of an IRF port
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 characters Optional	If MDCName is specified, it binds physical ports on the MDC to an IRF port. If no MDCName is specified, it binds physical ports on the default MDC to an IRF port.
Mode	Physical IRF port mode	N/A	Enumeration. 1—Normal 2—Enhanced 3—Extended Default: variant between products.	Normal: Sets the binding mode to normal. Enhanced: Sets the binding mode to enhanced. Extended: Sets the binding mode to extended.

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XML structure	6
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Columns	7

IRF

IRF/Capability

This table contains IRF global configuration information, also available in stand-alone mode.

XML structure

```
<IRF>
  <Capability>
    <MaxMemberCount></MaxMemberCount>
    <MaxPriority></MaxPriority>
    <MaxIfNumPerIRFPort></MaxIfNumPerIRFPort>
    <SupportedIfTypes>
      <ifTypeExt></ifTypeExt>
    </SupportedIfTypes>
    <SupportNormalPortMode></SupportNormalPortMode>
    <SupportEnhancedPortMode></SupportEnhancedPortMode>
    <SupportExtendedPortMode></SupportExtendedPortMode>
    <SupportLightIRFMode></SupportLightIRFMode>
    <SupportNormalIRFMode></SupportNormalIRFMode>
    <SupportEnhancedIRFMode></SupportEnhancedIRFMode>
    <SupportIRFModeConvert></SupportIRFModeConvert>
  </Capability>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxMemberCount	The maximum number of members in a stack.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxPriority	The highest priority that can be configured for a member in a stack	N/A	Unsigned integer.	N/A
MaxIfNumPerIRFPort	The maximum number of physical ports in an IRF port.	N/A	Unsigned integer.	N/A
SupportedIfTypes	Indicates which physical interface type can be added to IRF port.	Data structure	Members: ifTypeExt	Multi-instance.
ifTypeExt	The physical interface type.	N/A	Unsigned integer.	ifTypeExt is referenced from Interfaces table in Ifmgr NETCONF XML API, XPath is Ifmgr/Interfaces/Interface/ifTypeExt. Please reference to <i>Comware V7 Ifmgr NETCONF XML API Data Reference</i> .
SupportNormalPortMode	Indicates whether support normal port mode.	N/A	Boolean - true - false	N/A
SupportEnhancedPortMode	Indicates whether support enhanced port mode.	N/A	Boolean - true - false	N/A
SupportExtendedPortMode	Indicates whether support extended port mode.	N/A	Boolean - true - false	N/A
SupportLightIRFMode	Indicates whether support light IRF mode.	N/A	Boolean - true - false	N/A
SupportNormalIRFMode	Indicates whether support normal IRF mode.	N/A	Boolean - true - false	N/A
SupportEnhancedIRFMode	Indicates whether support enhanced IRF mode.	N/A	Boolean - true - false	N/A
SupportIRFModeConvert	Indicates whether support mode convert between IRF and stand-alone mode.	N/A	Boolean - true - false	N/A

IRF/Configuration

This table contains IRF global configuration information.

XML structure

```
<IRF>
  <Configuration>
    <AutoMerge></AutoMerge>
    <AutoUpgrade></AutoUpgrade>
    <Domain></Domain>
    <LinkDelay></LinkDelay>
    <MacPersist></MacPersist>
    <BridgeMac></BridgeMac>
    <TopoType></TopoType>
    <StackMode></StackMode>
    <MemberCount></MemberCount>
  </Configuration>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoMerge	State of the auto merge function	N/A	EnableState.	enable: The IRF fabric automatically reboots its member devices when it fails in the master election during an IRF fabric merge. disable: Manual reboot is required to complete an IRF fabric merge.

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgrade	Status of the software auto-update function	N/A	EnableState.	enable: The master device automatically pushes its software images to the device you are adding to the IRF fabric. disable: You must manually make sure the joining device uses the same software images as the master device. If not, the new device cannot join the IRF fabric.
Domain	Domain ID for the IRF fabric	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
LinkDelay	IRF link down report delay	N/A	Unsigned integer. Value range: 0 to 10000. Unit: milliseconds.	If the interval is set to 0, link down events are reported without any delay.
MacPersist	IRF bridge MAC persistence setting	N/A	Enumeration. 1—Timer 2—Always 3—No	Timer: A 6 minutes timer, bridge MAC address of the IRF fabric persists for 6 minutes after the master leaves. Always: Bridge MAC address of the IRF fabric does not change after the master leaves. No: Bridge MAC address of the new master replaces the original one as soon as the old master leaves.
BridgeMac	IRF bridge MAC address	N/A	MacAddress.	N/A
TopoType	Stack topology	N/A	Enumeration. 1—Chain 2—Ring 3—Unconverged	N/A
StackMode	Current stack mode of the device	N/A	Boolean - true - false	true: Stack mode false: Stand-alone mode Also available in stand-alone mode.
MemberCount	The number of members currently in a stack	N/A	Unsigned integer.	N/A

IRF/Members

This table contains configuration of the IRF members.

XML structure

```
<IRF>
  <Members>
    <Member>
      <MemberID></MemberID>
      <NewMemberID></NewMemberID>
      <Description></Description>
      <Priority></Priority>
      <CPUMac></CPUMac>
      <Board>
        <Chassis></Chassis>
        <Slot></Slot>
        <Role></Role>
      </Board>
    </Member>
  </Members>
</IRF>
```

Table description

Item	Description
Feature name	IRF
Table name	Members
Table type	Multi-instance table
Row name	Member
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: 0 to 32. Stack mode: 1 to 32. Stand-alone mode: 0.	The current member ID of the device. The maximum member ID is variant between products. Also available in stand-alone mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
NewMemberID	Member ID assigned to the device	N/A	Unsigned integer. Value range: 1 to 32.	This member ID takes effect at reboot. The maximum member ID is variant between products. Also available in stand-alone mode.
Description	Description for the member device.	N/A	String. Max length: 127	A string of 1 to 127 ASCII characters.
Priority	Member priority	N/A	Unsigned integer. Value range: 1 to 32.	Also available in stand-alone mode.
CPUMac	Member's CPU MAC address	N/A	MacAddress.	N/A
Board	Board information of the member	Data structure	Members: • Chassis • Slot • Role	Multi-instance
Chassis	Chassis ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	IRF(Distributed): this value is large than zero. IRF: this value is zero.
Slot	Slot ID of the board	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Role	Board role	N/A	Enumeration. • 1—Master • 2—Standby • 3—Loading • 4—Other	N/A

IRF/IRFPorts

This table contains configuration of the IRF ports.

XML structure

```

<IRF>
  <IRFPorts>
    <IRFPort>
      <MemberID></MemberID>
      <Port></Port>
      <Neighbor></Neighbor>
      <State></State>
      <Interface>
        <IfName></IfName>
        <MDCName></MDCName>
        <Mode></Mode>
      </Interface>
    </IRFPort>
  </IRFPorts>
</IRF>

```

```

        <LinkState></LinkState>
    </Interface>
    <LinkStateInMDC>
        <MDCName></MDCName>
        <State></State>
    </LinkStateInMDC>
</IRFPort>
</IRFPorts>
</IRF>

```

Table description

Item	Description
Feature name	IRF
Table name	IRFPorts
Table type	Multi-instance table
Row name	IRFPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MemberID	Member ID	index	Unsigned integer. Value range: Stack mode: 1 to 32. Stand-alone mode: 0.	The current member ID of the device. Also available in stand-alone mode.
Port	IRF port number	index	Unsigned integer. Value range: 1 to 2	1: IRF port 1 2: IRF port 2 Also available in stand-alone mode.
Neighbor	Neighbor member ID of this device.	N/A	Unsigned integer. Value range: 1 to 32.	N/A
State	State of the IRF port.	N/A	Enumeration. 1—Disabled 2—Up 3—Down 4—Isolated 5—Timeout	N/A
Interface	Physical port of an IRF port	Data structure	Members: - IfName - MDCName - Mode - LinkState	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfName	Interface name	N/A	String. Length: 2 to 47 characters.	Physical port of an IRF port
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	If MDCName is specified, it binds physical ports on the MDC to an IRF port. If MDCName is not specified, it binds physical ports on the default MDC to an IRF port.
Mode	Physical IRF port mode	N/A	Enumeration. 1—Normal 2—Enhanced 3—Extended	Normal: Sets the binding mode to normal. Enhanced: Sets the binding mode to enhanced. Extended: Sets the binding mode to extended.
LinkState	Link state of the interface.	N/A	Enumeration. 1—Up 2—Down 3—ADM 4—Absent	Up: Link is up. Down: Link is down. ADM: The port has been manually shut down with the shutdown command. Absent: Interface module that hosts the port is not present.
LinkStateInMDC	IRF link state on MDC of the specified IRF port.	Data structure	Members: - MDCName - State	Multi-instance. Also available in stand-alone mode.
MDCName	MDC name	N/A	Case-sensitive string. Length: 1 to 15 Optional	N/A
State	State of the IRF port in a MDC.	N/A	Enumeration. 1—Up 2—Down 3—Timeout	N/A

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XML structure	2
Table description	2
Columns	2

KDNS

KDNS/ClearDNSCaches

This table is used to clear the specified DNS cache.

XML structure

```
<KDNS>
  <ClearDNSCaches>
    <ClearDNSCache>
      <DomainName></DomainName>
      <Clear></Clear>
    </ClearDNSCache>
  </ClearDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearDNSCaches
Table type	Single-instance table
Row name	ClearDNSCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Clear	Action of clearing the specified DNS cache.	N/A	This column must be empty.	N/A

KDNS/ClearAllDNSCaches

This table is used to clear all DNS caches.

XML structure

```
<KDNS>
  <ClearAllDNSCache>
    <Clear></Clear>
  </ClearAllDNSCache>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearAllDNSCache
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS caches.	N/A	This column must be empty.	N/A

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KDNS

KDNS/DNSCaches

This table contains information about DNS cache.

XML structure

```
<KDNS>
  <DNSCaches>
    <DNSCache>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <DomainName></DomainName>
      <Index></Index>
      <DataType></DataType>
      <DataLength></DataLength>
      <DataValue></DataValue>
    </DNSCache>
  </DNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	DNSCaches
Table type	Multi-instance table
Row name	DNSCache
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Index	Index of the DNS cache.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataType	Type of data.	N/A	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
DataLength	Length of data.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DataValue	Data value.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A

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L2MAD

L2MAD/L2MADEnable

This table contains ARP MAD and ND MAD configuration information.

XML structure

```
<L2MAD>
  <L2MADEnable>
    <Enable>
      <IfIndex></IfIndex>
      <MADARPEnable></MADARPEnable>
      <MADNDEnable></MADNDEnable>
    </Enable>
  </L2MADEnable>
</L2MAD>
```

Table description

Item	Description
Feature name	L2MAD
Table name	L2MADEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	This table supports interface types: VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only VLAN interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
MADARPEnable	Whether the ARP MAD function is enable.	N/A	Boolean: • true • false (default)	You can use ARP MAD with BFD MAD and ND MAD, but not with LACP MAD. Do not configure ARP MAD on VLAN-interface 1.
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: • true • false (default)	You can use ND MAD with BFD MAD and ARP MAD, but not with LACP MAD. Do not configure ND MAD on VLAN-interface 1.

Contents

L2MAD	1
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XML structure	1
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L2MAD

L2MAD/L2MADEnable

This table contains ARP MAD and ND MAD configuration information.

XML structure

```
<L2MAD>
  <L2MADEnable>
    <Enable>
      <IfIndex></IfIndex>
      <MADARPEnable></MADARPEnable>
      <MADNDEnable></MADNDEnable>
    </Enable>
  </L2MADEnable>
</L2MAD>
```

Table description

Item	Description
Feature name	L2MAD
Table name	L2MADEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	This table supports interface types: VLAN interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only VLAN interfaces are supported.
MADARPEnable	Whether the ARP MAD function is enable.	N/A	Boolean: • true • false	N/A
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: • true • false	N/A

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XML structure	8
Table description	8
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L2VPN

L2VPN/ClearVSIStatistics

This table is used to clear traffic statistics of the VSI.

XML structure

```
<L2VPN>
  <ClearVSIStatistics>
    <VSIStatistics>
      <VsiName></VsiName>
      <Clear></Clear>
    </VSIStatistics>
  </ClearVSIStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIStatistics
Table type	Multi-instance table
Row name	VSIStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Clear	Clear VSI traffic statistics.	N/A	This column must be empty.	Clear

L2VPN/ClearAllVSIStatistics

This table is used to clear traffic statistics of all VSI.

XML structure

```
<L2VPN>
  <ClearAllVSIStatistics>
    <Clear></Clear>
  </ClearAllVSIStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllVSIStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all VSIs.	N/A	This column must be empty.

L2VPN/ClearACStatistics

This table is used to clear traffic statistics of an AC. [Currently, the AC can only be an Ethernet service instance.](#)

XML structure

```
<L2VPN>
  <ClearACStatistics>
    <ACStatistics>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Clear></Clear>
    </ACStatistics>
  </ClearACStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearACStatistics
Table type	Multi-instance table
Row name	ACStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Clear	Clear traffic statistics.	N/A	This column must be empty.	Clear

L2VPN/ClearAllACStatistics

This table is used to clear traffic statistics of all ACs. [Currently, an AC can only be an Ethernet service instance.](#)

XML structure

```
<L2VPN>
  <ClearAllACStatistics>
    <Clear></Clear>
  </ClearAllACStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllACStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears statistics on all ACs.	N/A	This column must be empty.

L2VPN/SwitchoverPW

This table is used to switch traffic from the specified PW to its backup PW.

XML structure

```
<L2VPN>
  <SwitchoverPW>
    <PeerAddr></PeerAddr>
    <PWID></PWID>
    <Switch></Switch>
  </SwitchoverPW>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SwitchoverPW
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerAddr	LSR ID of the peer PE	N/A	String, dotted decimal notation.	N/A
PWID	PW ID of the PW	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Switch	Switch to backup PW	N/A	This column must be empty.	N/A

L2VPN/ClearVSIMAC

This table is used to reset learned MAC address for the specified VSI.

XML structure

```
<L2VPN>
  <ClearVSIMAC>
    <VSI>
      <VsiName></VsiName>
      <Clear></Clear>
    </VSI>
  </ClearVSIMAC>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIMAC
Table type	Multi-instance table
Row name	VSI
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Clear	Clear learned MAC address for the VSI.	N/A	This column must be empty.	N/A

L2VPN/ClearAllMAC

This table is used to reset all learned MAC address.

XML structure

```
<L2VPN>
  <ClearAllMAC>
    <Clear></Clear>
  </ClearAllMAC>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearAllMAC
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all learned MAC address	N/A	This column must be empty.	N/A

L2VPN/ClearAllPWStatistics

This table is used to clear all PW statistics.

XML structure

```
<L2VPN>
  <ClearAllPWStatistics>
    <Clear></Clear>
  </ClearAllPWStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN

Item	Description
Table name	ClearAllPWStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all PW statistics	N/A	This column must be empty.	N/A

L2VPN/ClearVSIPWStatistics

This table is used to clear specific PW related to the specific VSI.

XML structure

```

<L2VPN>
  <ClearVSIPWStatistics>
    <ClearVSIPWStatistic>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Clear></Clear>
    </ClearVSIPWStatistic>
  </ClearVSIPWStatistics>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearVSIPWStatistics
Table type	Multi-instance table
Row name	ClearVSIPWStatistic
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	N/A	String, dotted decimal notation.	This column must be specified together with PWID.
PWID	PW ID of the PW	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column must be specified together with PeerAddr.
Clear	Clear specific PW statistics	N/A	This column must be empty.	N/A

L2VPN/ClearXCGPWStatistics

This table is used to clear PW statistics related to the specific XCG.

XML structure

```
<L2VPN>
  <ClearXCGPWStatistics>
    <ClearXCGPWStatistic>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Clear></Clear>
    </ClearXCGPWStatistic>
  </ClearXCGPWStatistics>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	ClearXCGPWStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	N/A
Clear	Clear specific PW statistics	N/A	This column must be empty.	N/A

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L2VPN

L2VPN/Base

This table contains global L2VPN information.

XML structure

```
<L2VPN>
  <Base>
    <Enable></Enable>
  </Base>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether L2VPN feature is enabled globally	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

L2VPN/VSIs

This table contains information about VSIs.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <HubSpoke></HubSpoke>
    </VSI>
  </VSIs>
</L2VPN>
```

```

    <ArpSuppression></ArpSuppression>
    <MacLearning></MacLearning>
    <MacLimit></MacLimit>
    <Flooding></Flooding>
    <FloodType></FloodType>
    <VsiInterfaceID></VsiInterfaceID>
    <Statistics></Statistics>
    <Description></Description>
    <Bandwidth></Bandwidth>
    <BroadcastRestrain></BroadcastRestrain>
    <MulticastRestrain></MulticastRestrain>
    <UnknownUnicastRestrain></UnknownUnicastRestrain>
    <AdminStatus></AdminStatus>
  </VSI>
</VSIs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
HubSpoke	Support for hub spoke capability.	N/A	Boolean: - true—Supported. - false—Not supported(default).	Support for this column depends on the device model. No modification.
ArpSuppression	ARP flooding suppression	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Need confirm by products .
MacLearning	MAC address learning	N/A	Boolean: - true—Enabled(default). - false—Disabled.	Support for this column depends on the device model.
MacLimit	MAC table limit	N/A	Unsigned integer.	Support for this

			Value range: The value range varies by device model.	column depends on the device model.
Flooding	Flooding for all destination-unknown frames	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A
FloodType	Flood type	N/A	Enumeration: 1—Broadcast 2—Unknown unicast 4— Multicast 3/5/6/7—the combination of the tree type above - Default: 7	The value is always 7 when the Flooding is enable. The value must be set when the flooding set to disable.
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	The range of VsiInterfaceID is reference in table of Base which in Data API.
Statistics	VSI statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	N/A
Description	description for the VSI	N/A	String. Length: 1 to 80 characters.	N/A
Bandwidth	VSI bandwidth	N/A	Unsigned integer Value range: 64 to 4194303 kbps.	Support for this column depends on the device model.
BroadcastRestrain	Broadcast suppression bandwidth threshold	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps. The default value varies by device model.	Support for this column depends on the device model. The default value of BroadcastRestrain is the value of VSIBroadcastRestrainDefault in the Base table of Data API.
MulticastRestrain	Multicast suppression bandwidth threshold	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps. The default value varies by device model.	Support for this column depends on the device model. The default value of MulticastRestrain is the value of VSIMulticastRestrainDefault in the Base table of Data API.
UnknownUnicastRestrain	Unknown-unicast suppression bandwidth	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps.	Support for this column depends on the device

	threshold		The default value varies by device model.	model. The default value of UnknownUnicast Restraining is the value of VSIUnicastRestrainingDefault in the Base table of Data API.
AdminStatus	Administrative status	N/A	Enumeration: 1—Administratively up(default). 2—Administratively down.	N/A

L2VPN/PWClasses

This table contains PW class information.

XML structure

```

<L2VPN>
  <PWClasses>
    <PWClass>
      <PWClassName></PWClassName>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <SequencingBoth></SequencingBoth>
    </PWClass>
  </PWClasses>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	PWClasses
Table type	Multi-instance table
Row name	PWClass
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PWClassName	PW class name	Index	String. Length: 1 to 19 characters.	N/A
ControlWord	control word for ACs	N/A	Boolean: - true—Enabled. - false—Disabled(default).	N/A
PWType	PW type for PWs	N/A	Enumeration: 1—VLAN(default). 2—Ethernet.	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this column depends on the device model.

L2VPN/SRVs

This table contains information about service instances of layer 2 ethernet interfaces.

XML structure

```

<L2VPN>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Encap></Encap>
      <SVlanRange></SVlanRange>
      <CVlanRange></CVlanRange>
    </SRV>
  </SRVs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports only layer 2 Ethernet interfaces. You must follow these restrictions: Specify SVlanRange and not CVlanRange when the value of Encap is SvlanId or SvlanIdOnlyTagged or

	SvlanList or SvlanListOnlyTagged; - Specify both SVlanRange and CVlanRange when the value of Encap is SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll; the value of CVlanRange must be 1-4094 when the value of Encap is SvlanIdCvlanAll. - Specify CVlanRange and not SVlanRange when the value of Encap is CvlanId or CvlanList; - Don't specify SVlanRange and CVlanRange when the value of Encap is Default or Untagged or Tagged.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Encap	Encapsulation type	N/A	Enumeration: 1—Default. 2—Untagged. 3—Tagged 4—SvlanId 5—SvlanIdOnlyTagged 6—SvlanIdCvlanId 7—CvlanId 8—CvlanList 9—SvlanIdCvlanList 10—SvlanIdCvlanAll 11—SvlanList 12—SvlanListOnlyTagged 13—SvlanListCvlanList	Can not be modified after creation. You must and only need specify this column when you remove or delete the encapsulation, and the SVlanRange column or CVlanRange column is ignored.
SVlanRange	A outer VLAN ID or a list of outer VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must be larger than the	Example: 1,2,3,5-8,10-20. The value must be different in different VLAN ID ranges. If this column is

			start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	required, you must also specify the Encap column.
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must be larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The value must be different in different VLAN ID ranges. If this column is required, you must also specify the Encap column.

L2VPN/ACs

This table contains information about ACs.

XML structure

```

<L2VPN>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
      <Statistics></Statistics>
      <Bandwidth></Bandwidth>
      <LearningMode></LearningMode>
    </AC>
  </ACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	The access mode of this AC	N/A	Enumeration: 1—Vlan. 2—Ethernet.	Can not be modified after creation. By default, the value is 1.
Hub	Hub spoke attribute for the Link.	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first create the VSI with the hub-spoke capability. Can not be modified after creation.
Statistics	Whether statistics function is enabled	N/A	Boolean: - true. - false (default).	N/A
Bandwidth	AC bandwidth	N/A	Unsigned integer Value range: 64 to 4194303 kbps.	Support for this column depends on the device

				model.
LearningMode	MAC learning mode of this AC	N/A	Enumeration: 0—MAC mode. 1—SVID only. 2—Double VIDs. 3—Learning disabled	By Default, the value is 0 (MAC mode). Support for this column depends on the device.

L2VPN/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```

<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
    </L3Interface>
  </L3Interfaces>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For

				information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	Access mode of the AC	N/A	Enumeration: 1—VLAN. 2—Ethernet.	Cannot be modified after creation. By default, the value is 1.
Hub	Hub spoke attribute for the Link.	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first create the VSI with the hub-spoke capability. Can not be modified after creation.

L2VPN/FloodingMACs

This table contains information about MAC address which can be selectively flooded.

XML structure

```

<L2VPN>
  <FloodingMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
    </MAC>
  </FloodingMACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN

Table name	FloodingMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value can't be broadcast address.	Example: 00-0c-af-e3-5d-c0. Some versions only support unicast address or all 0s.

L2VPN/LocalMACs

This table contains information about setting static local MAC addresses for each VSI.

XML structure

```

<L2VPN>
  <LocalMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
    </MAC>
  </LocalMACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	LocalMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI first.
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference. IfIndex cannot be modified after creation.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	SrvID cannot be modified after creation.

L2VPN/VSIInterfaces

This table is used to create or delete VSI interfaces

XML structure

```

<L2VPN>
  <VSIInterfaces>
    <Interface>
      <ID></ID>
      <LocalEnable></LocalEnable>
      <L3VNI></L3VNI>
      <ArpSendRate></ArpSendRate>
      <PrefixRouteGenerate></PrefixRouteGenerate>
    </Interface>
  </VSIInterfaces>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIInterfaces

Table type	Multi-instance table
Row name	Interface
Restrictions	You must enable global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VSI interface ID	Index	Unsigned integer	The range of VsiInterfaceID is reference in table of Base which in Data API.
LocalEnable	Local distributed gateway	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A
L3VNI	L3 VNI for the tenant	N/A	Unsigned integer	N/A
ArpSendRate	ARP packet sending rate limit	N/A	Unsigned integer Value range: 0 to 500.	By default, the value is 0 for no limit.
PrefixRouteGenerate	Whether EVPN route advertisement is enabled.	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A

L2VPN/Ipv4Subnets

This table contains information about IPv4 subnet configurations.

XML structure

```

<L2VPN>
  <VSIIPv4Subnets>
    <Ipv4Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <WildcardMask></WildcardMask>
    </Ipv4Subnet>
  </VSIIPv4Subnets>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIPv4Subnets
Table type	Multi-instance table
Row name	Ipv4Subnet
Restrictions	You must specify a gateway interface for the VSI at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv4 address	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask	Index	String, dotted decimal notation.	N/A

L2VPN/Ipv6Subnets

This table contains information about IPv6 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIPv6Subnets>
    <Ipv6Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <PrefixLength></PrefixLength>
    </Ipv6Subnet>
  </VSIIPv6Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN

Table name	VSIIPv6Subnets
Table type	Multi-instance table
Row name	Ipv6Subnet
Restrictions	You must specify a gateway interface for the VSI at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: ABCD:EF01::1
PrefixLength	Prefix length of the IPv6 address	Index	Unsigned integer. • Value range: 1- 128.	N/A

L2VPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```

<L2VPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <SoftwareLearning></SoftwareLearning>
      <Dci></Dci>
      <VxlanOverVxlan></VxlanOverVxlan>
      <MacBasedAc></MacBasedAc>
    </InterfaceConfig>
  </InterfaceConfigs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	InterfaceConfigs
Table type	Multi-instance table
Row name	InterfaceConfig
Restrictions	You must first enable the L2VPN feature globally.

Support for row creation and deletion

No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SoftwareLearning	Whether learning MAC addresses through software function is enabled	N/A	Boolean: - true - false (default)	N/A
Dci	Whether Dci is enabled	N/A	Boolean: - true - false (default)	Support for this column depends on the device model.
VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: - true - false (default)	Support for this column depends on the device model.
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: - true - false (default)	Support for this column depends on the device model.

L2VPN/SrvRewrites

This table contains information about VLAN tag rewrite capability of service instances.

XML structure

```

<L2VPN>
  <SrvRewrites>
    <SrvRewrite>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Inbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
      </Inbound>
    </SrvRewrite>
  </SrvRewrites>
</L2VPN>

```

```

    <CvlanID></CvlanID>
    <Symmetric></Symmetric>
  </Inbound>
  <Outbound>
    <RewriteType></RewriteType>
    <SvlanID></SvlanID>
    <CvlanID></CvlanID>
  </Outbound>
</SrvRewrite>
</SrvRewrites>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvRewrites
Table type	Multi-instance table
Row name	SrvRewrite
Restrictions	You must first enable the L2VPN feature globally.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance before you merge, replace or create SrvRewrites.
Inbound	Inbound direction of packets	N/A	Members include: - RewriteType - SvlanID	RewriteType must be specified.

			- CvlanID - Symmetric	
Outbound	Outbound direction of packets	N/A	Members include: - RewriteType - SvlanID - CvlanID	The members of RewriteType must be specified.
RewriteType	Rewrite type	N/A	Unsigned integer. Value: 1: NEST 2: REMARK_ONE 3: REMARK_TWO 4: STRIP_SVLAN 5: STRIP_CVLAN 6: STRIP_BOTH	N/A
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Applies the opposite VLAN tag processing rule to outgoing traffic	N/A	Boolean: true—Enabled. false—Disabled.	By default, the value is false.

L2VPN/L3Rewrites

This table contains information about rewrite capability of ac interface.

XML structure

```

<L2VPN>
  <L3Rewrites>
    <L3Rewrite>
      <IfIndex></IfIndex>
      <RewriteType></RewriteType>
      <SVlanID></SVlanID>
      <CVlanID></CVlanID>
      <Symmetric></Symmetric>
    </L3Rewrite>
  </L3Rewrites>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Rewrites

Table type	Multi-instance table
Row name	L3Rewrite
Restrictions	You must enable L2VPN feature globally at first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
RewriteType	RewriteType	N/A	Unsigned integer. Value: 1: NEST_S 2: NEST_C 3: NEST_SC 8: REMARK_1TO2	
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Symmetric	N/A	Boolean: true—Enabled. false—Disabled.	By default, the value is false.

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L2VPN

L2VPN/Base

This table contains global L2VPN information.

XML structure

```
<L2VPN>
  <Base>
    <Enable></Enable>
    <SupportVsiInterface></SupportVsiInterface>
    <VsiInterfaceMinID></VsiInterfaceMinID>
    <VsiInterfaceMaxID></VsiInterfaceMaxID>
    <SupportSRV></SupportSRV>
    <SupportControlWord></SupportControlWord>
    <SupportVPLSHubSpoke></SupportVPLSHubSpoke>
    <SupportVPLSMACLimit></SupportVPLSMACLimit>
    <MACLimitMAX></MACLimitMAX>
    <SupportVPWSInterworking></SupportVPWSInterworking>
    <SupportVPWSDualReceive></SupportVPWSDualReceive>
    <SupportVSIStatistics></SupportVSIStatistics>
    <SupportPWStatistics></SupportPWStatistics>
    <SupportVSIBandwidth></SupportVSIBandwidth>
    <SupportVSIBroadcastRestrain></SupportVSIBroadcastRestrain>
    <VSIBroadcastRestrainDefault></VSIBroadcastRestrainDefault>
    <SupportVSIMulticastRestrain></SupportVSIMulticastRestrain>
    <VSIMulticastRestrainDefault></VSIMulticastRestrainDefault>
    <SupportVSIUnicastRestrain></SupportVSIUnicastRestrain>
    <VSIUnicastRestrainDefault></VSIUnicastRestrainDefault>
    <SupportACBandwidth></SupportACBandwidth>
    <SupportVxlanOverVxlan></SupportVxlanOverVxlan>
  </Base>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether L2VPN feature is enabled globally	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SupportVsiInterface	Whether VSI interface feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
VsiInterfaceMinID	Minimum VSI interface ID.	N/A	Unsigned integer.	N/A
VsiInterfaceMaxID	Maximum VSI interface ID.	N/A	Unsigned integer.	N/A
SupportSRV	Whether SRV feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportControlWord	Whether control word feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportVPLSHubSpoke	Whether VPLS hub-spoke feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportVPLSMACLimit	Whether VPLS MAC limit feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
MACLimitMax	Maximum VPLS MAC limit	N/A	Unsigned integer	N/A
SupportVPWSInterworking	Whether VPWS interworking feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportVPWSDualReceive	Whether VPWS dualreceive feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportVSIStatistics	Whether VSI statistics feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportPWStatistics	Whether PW statistics feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportVSIB	Whether VSI	N/A	Boolean:	N/A

bandwidth	bandwidth feature is supported		• true—Supported. • false—Not supported.	
SupportVSIBroadcastRestraining	Whether VSI broadcast suppression feature is supported	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
VSIBroadcastRestrainingDefault	The default value of broadcast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportVSIMulticastRestraining	Whether VSI multicast suppression feature is supported	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
VSIMulticastRestrainingDefault	The default value of multicast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportVSIUnknownUnicastRestraining	Whether VSI Unknown-unicast suppression feature is supported	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
VSIUnknownUnicastRestrainingDefault	The default value of Unknown-unicast suppression bandwidth threshold.	N/A	Unsigned integer.	N/A
SupportACBandwidth	Whether AC bandwidth feature is supported	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
SupportVxlanOverVxlan	Whether VXLAN over VXLAN is supported	N/A	Boolean: • true—Supported. • false—Not supported.	N/A

L2VPN/SrvEncapCapabilities

This table contains the encapsulation capabilities of service instance.

XML structure

```
<L2VPN>
  <SrvEncapCapabilities>
```

```

<Default></Default>
<Untagged></Untagged>
<Tagged></Tagged>
<SvlanId></SvlanId>
<SvlanIdOnlyTagged></SvlanIdOnlyTagged>
<SvlanIdCvlanId></SvlanIdCvlanId>
<CvlanId></CvlanId>
<CvlanList></CvlanList>
<SvlanIdCvlanList></SvlanIdCvlanList>
<SvlanIdCvlanAll></SvlanIdCvlanAll>
<SvlanList></SvlanList>
<SvlanListOnlyTagged></SvlanListOnlyTagged>
<SvlanListCvlanList></SvlanListCvlanList>
</SrvEncapCapabilities>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvEncapCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Default	Support for matching packets by the default criteria which matches packets that do not match any other service instance.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
Untagged	Support for matching untagged packets.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
Tagged	Support for matching all tagged packets.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanId	Support for matching packets by a SVLAN ID.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanIdOnlyTagged	Support for matching only tagged packets by a	N/A	Boolean: true—Enabled.	N/A

	SVLAN ID.		false—Disabled.	
SvlanIdCvlanId	Support for matching packets by a SVLAN ID and a CVLAN ID.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
CvlanId	Support for matching packets by a CVLAN ID.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
CvlanList	Support for matching packets by CVLAN ID list.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanIdCvlanList	Support for matching packets by a SVLAN ID and CVLAN ID list.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanIdCvlanAll	Support for matching packets by a SVLAN ID and all CVLAN ID.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanList	Support for matching packets by SVLAN ID list	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanListOnlyTagged	Support for matching only tagged packets by SVLAN ID list.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
SvlanListCvlanList	Support for matching packets by SVLAN ID list and CVLAN ID list.	N/A	Boolean: true—Enabled. false—Disabled.	N/A

L2VPN/VSIIs

This table contains information about VSIs.

XML structure

```

<L2VPN>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <HubSpoke></HubSpoke>
      <VsiIndex></VsiIndex>
      <VxlanID></VxlanID>
      <NvgreID></NvgreID>
      <ArpSuppression></ArpSuppression>
      <MacLearning></MacLearning>
      <MacLimit></MacLimit>
      <Flooding></Flooding>
      <FloodType></FloodType>
      <VsiInterfaceID></VsiInterfaceID>
      <Statistics></Statistics>
    </VSI>
  </VSIs>
</L2VPN>

```



```

<Description></Description>
<Bandwidth></Bandwidth>
<BroadcastRestrain></BroadcastRestrain>
<MulticastRestrain></MulticastRestrain>
<UnknownUnicastRestrain></UnknownUnicastRestrain>
<AdminStatus></AdminStatus>
<Status></Status>
<LocMacCnt></LocMacCnt>
</VSI>
</VSIs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
HubSpoke	Support for hub spoke capability	N/A	Boolean: - true—Supported. - false—Not supported.	No modification. Support for this column depends on the device model.
VsiIndex	VSI index	N/A	Unsigned integer.	N/A
VxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
NvgreID	NVGRE ID	N/A	Unsigned integer, Value range: 4096-16777214.	N/A
ArpSuppression	ARP flooding suppression	N/A	Boolean: true—Enabled. false—Disabled.	N/A
MacLearning	MAC address learning	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
MacLimit	MAC table limit	N/A	Unsigned integer.	Support for this column depends

			Value range: The value range varies by device model.	on the device model.
Flooding	Flooding for all destination-unknown frames	N/A	Boolean: true—Enabled. false—Disabled.	N/A
FloodType	Flood type	N/A	Enumeration: 1—Broadcast 2—Unknown unicast 4— Multicast 3/5/6/7—the combination of the tree type above	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer.	N/A
Statistics	VSI statistics	N/A	Boolean: true—Enabled. false—Disabled	N/A
Description	Description for the VSI	N/A	String. Length: 1 to 80 characters.	N/A
Bandwidth	VSI bandwidth	N/A	Unsigned integer Value range: 64 to 4194303 kbps.	N/A
BroadcastRestrain	Broadcast suppression bandwidth threshold	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps.	N/A
MulticastRestrain	Multicast suppression bandwidth threshold	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps.	N/A
UnknownUnicastRestrain	Unknown-unicast suppression bandwidth threshold	N/A	Unsigned integer Value range: 0, 64 to 4194303 kbps.	N/A
AdminStatus	Administratively status	N/A	Enumeration: 1—Administratively up. 2—Administratively down.	N/A
Status	VSI status	N/A	Enumeration: 1—Up. 2—Down.	N/A
LocMacCnt	The count of local MAC addresses	N/A	Unsigned integer.	The value is always zero when the mode of VSI is not VXLAN. The value may be not zero when the mode of VSI is VXLAN.

L2VPN/PWClasses

This table contains PW class information.

XML structure

```
<L2VPN>
  <PWClasses>
    <PWClass>
      <PWClassName></PWClassName>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <SequencingBoth></SequencingBoth>
    </PWClass>
  </PWClasses>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	PWClasses
Table type	Multi-instance table
Row name	PWClass
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PWClassName	PW class name	Index	String. Length: 1 to 19 characters.	N/A
ControlWord	Control word for ACs	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
PWType	PW type for ACs	N/A	Enumeration: 1—VLAN. 2—Ethernet.	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: - true—Enabled. - false—Disabled.	Support for this column depends on the device model.

L2VPN/SRVs

This table contains information about service instances of layer 2 ethernet interfaces.

XML structure

```
<L2VPN>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Encap></Encap>
      <SVlanRange></SVlanRange>
      <CVlanRange></CVlanRange>
    </SRV>
  </SRVs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports only layer 2 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A

Encap	Encapsulation type	N/A	Enumeration: 1—Default. 2—Untagged. 3—Tagged 4—SvlanId 5—SvlanIdOnlyTagged 6—SvlanIdCvlanId 7—CvlanId 8—CvlanList 9—SvlanIdCvlanList 10—SvlanIdCvlanAll 11—SvlanList 12—SvlanListOnlyTagged 13—SvlanListCvlanList	N/A
SVlanRange	A outer VLAN ID or a list of outer VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must be larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available when the value of Encap is SvlanId or SvlanIdOnlyTagged or SvlanListOnlyTagged or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range, and the end VLAN ID must be larger than the start VLAN ID. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available when the value of Encap is CvlanId or CvlanList or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.

L2VPN/ACs

This table contains information about ACs.

XML structure

```

<L2VPN>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>

```

```

    <AccessMode></AccessMode>
    <Hub></Hub>
    <Statistics></Statistics>
    <Bandwidth></Bandwidth>
    <LearningMode></LearningMode>
    <InPkts></InPkts>
    <InOctets></InOctets>
    <OutPkts></OutPkts>
    <OutOctets></OutOctets>
  </AC>
</ACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	N/A
AccessMode	The access mode of this AC	N/A	Enumeration: 1—Vlan. 2—Ethernet.	N/A

Hub	Hub spoke attribute for the Link.	N/A	Boolean: - true—Hub. - false—Spoke.	Only exists when the VSI supports hub-spoke capability.
Statistics	Whether statistics function is enabled	N/A	Boolean: - true. - false.	N/A
Bandwidth	AC bandwidth	N/A	Unsigned integer Value range: 64 to 4194303 kbps.	N/A
LearningMode	MAC learning mode of the AC	N/A	Enumeration: 0—MAC mode. 1—SVID only. 2—Double VIDs. 3—Learning disabled	By Default, the value is 0 (MAC mode). Support for this column depends on the device.
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	Number of Outbound packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	Number of Outbound bytes	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A

L2VPN/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```

<L2VPN>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
      <Hub></Hub>
    </L3Interface>
  </L3Interfaces>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN

Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	This table supports only layer 3 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VsiName	VSI name	N/A	String. Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create ACs.
AccessMode	Access mode of the AC	N/A	Enumeration: 1—VLAN. 2—Ethernet.	N/A
Hub	Hub spoke attribute for the Link.	N/A	Boolean: - true—Hub. - false—Spoke.	Only exists when the VSI supports hub-spoke capability.

L2VPN/FloodingMACs

This table contains information about MAC addresses which can be selectively flooded.

XML structure

```

<L2VPN>
  <FloodingMACs>
    <MAC>
      <VsiName></VsiName>

```



```

        <MacAddr></MacAddr>
    </MAC>
</FloodingMACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	FloodingMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

L2VPN/LocalMACs

This table contains information about local MAC addresses of each VSI.

XML structure

```

<L2VPN>
  <LocalMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Type></Type>
    </MAC>
  </LocalMACs>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	LocalMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	Only supported when the mode of VSI is VXLAN.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MacAddr	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
IfIndex	Interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
Type	Type of local MAC address	N/A	Enumeration: 0—Dynamic 1—Static	N/A

L2VPN/VSIStatistics

This table contains VSI traffic statistics.

XML structure

```
<L2VPN>
  <VSIStatistics>
    <Statistics>
```

```

    <VsiName></VsiName>
    <InPkts></InPkts>
    <InOctets></InOctets>
    <InErrors></InErrors>
    <InDiscards></InDiscards>
    <OutPkts></OutPkts>
    <OutOctets></OutOctets>
    <OutErrors></OutErrors>
    <OutDiscards></OutDiscards>
  </Statistics>
</VSIStatistics>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
InPkts	Number of inbound packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
InOctets	Number of inbound bytes	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
InErrors	Number of inbound error packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
InDiscards	Number of inbound discard packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	Number of Outbound packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	Number of Outbound bytes	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
OutErrors	Number of Outbound error packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A

OutDiscards	Number of Outbound discard packets	N/A	Unsigned integer64. Value range: 0 to $2^{64} - 1$.	N/A
-------------	------------------------------------	-----	---	-----

L2VPN/AvailableVSIInterfaceID

This table contains the available VSI interface ID.

XML structure

```
<L2VPN>
  <AvailableVSIInterfaceID>
    <ID></ID>
  </AvailableVSIInterfaceID>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	AvailableVSIInterfaceID
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Available VSI interface ID	N/A	Unsigned integer.	The range of VsiInterfaceID is reference in table of Base which in Data API.

L2VPN/VSIInterfaces

This table contains information about VSI interfaces.

XML structure

```
<L2VPN>
  <VSIInterfaces>
    <Interface>
```

```

<ID></ID>
<IfIndex></IfIndex>
<Name></Name>
<LocalEnable></LocalEnable>
<L3VNI></L3VNI>
<ArpSendRate></ArpSendRate>
<PrefixRouteGenerate></PrefixRouteGenerate>
</Interface>
</VSIInterfaces>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	You must enable global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VSI interface ID	Index	Unsigned integer.	N/A
IfIndex	Interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
LocalEnable	Local distributed gateway	N/A	Boolean: true—Enabled. false—Disabled.	N/A
L3VNI	L3 VNI for the tenant	N/A	Unsigned integer	N/A
ArpSendRate	ARP packet	N/A	Unsigned integer.	0 for no limit.

	sending rate limit			
PrefixRouteGenerate	Whether EVPN route advertisement is enabled.	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A

L2VPN/Ipv4Subnets

This table contains information about IPv4 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIPv4Subnets>
    <Ipv4Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <WildCardMask></WildCardMask>
      <VsiInterfaceID></VsiInterfaceID>
    </Ipv4Subnet>
  </VSIIPv4Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIPv4Subnets
Table type	Multi-instance table
Row name	Ipv4Subnet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv4 address	Index	String, dotted decimal notation.	N/A
WildCardMask	Wildcard mask	Index	String, dotted decimal notation.	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	N/A

L2VPN/Ipv6Subnets

This table contains information about IPv6 subnet configurations.

XML structure

```
<L2VPN>
  <VSIIpv6Subnets>
    <Ipv6Subnet>
      <VsiName></VsiName>
      <SubnetAddress></SubnetAddress>
      <PrefixLength></PrefixLength>
      <VsiInterfaceID></VsiInterfaceID>
    </Ipv6Subnet>
  </VSIIpv6Subnets>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	VSIIpv6Subnets
Table type	Multi-instance table
Row name	Ipv6Subnet
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
SubnetAddress	IPv6 address	Index	Hexadecimal string, colon-separated.	Example: ABCD:EF01::1
PrefixLength	Prefix length of the IPv6 address	N/A	Unsigned integer. Value range: 1- 128.	N/A
VsiInterfaceID	VSI interface ID	N/A	Unsigned integer	N/A

L2VPN/InterfaceConfigs

This table contains information about configurations of interfaces.

XML structure

```
<L2VPN>
  <InterfaceConfigs>
    <InterfaceConfig>
      <IfIndex></IfIndex>
      <SoftwareLearning></SoftwareLearning>
      <Dci></Dci>
      <VxlanOverVxlan></VxlanOverVxlan>
      <MacBasedAc></MacBasedAc>
    </InterfaceConfig>
  </InterfaceConfigs>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	InterfaceConfigs
Table type	Multi-instance table
Row name	InterfaceConfig
Restrictions	You must first enable the L2VPN feature globally.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SoftwareLearning	Whether learning MAC addresses through software function is enabled	N/A	Boolean: - true - false	N/A
Dci	Whether Dci is enabled	N/A	Boolean: - true - false	N/A

VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: - true - false	N/A
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: - true - false (default)	Support for this column depends on the device model.

L2VPN/SrvRewrites

This table contains information about VLAN tag rewrite capability of service instances.

XML structure

```

<L2VPN>
  <SrvRewrites>
    <SrvRewrite>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <Inbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
        <Symmetric></Symmetric>
      </Inbound>
      <Outbound>
        <RewriteType></RewriteType>
        <SVlanID></SVlanID>
        <CVlanID></CVlanID>
      </Outbound>
    </SrvRewrite>
  </SrvRewrites>
</L2VPN>

```

Table description

Item	Description
Feature name	L2VPN
Table name	SrvRewrites
Table type	Multi-instance table
Row name	SrvRewrite
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
Inbound	Inbound direction of packets	N/A	Members include: - RewriteType - SvlanID - CvlanID - Symmetric	NA
Outbound	Outbound direction of packets	N/A	Members include: - RewriteType - SvlanID - CvlanID	N/A
RewriteType	Rewrite type	N/A	Unsigned integer. Value: 1: NEST 2: REMARK_ONE 3: REMARK_TWO 4: STRIP_SVLAN 5: STRIP_CVLAN 6: STRIP_BOTH	N/A
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Whether opposite VLAN tag processing is enabled for outgoing traffic	N/A	Boolean: true—Enabled. false—Disabled.	By default, the value is false.

L2VPN/L3Rewrites

This table contains information about rewrite capability of ac interface.

XML structure

```
<L2VPN>
  <L3Rewrites>
    <L3Rewrite>
      <IfIndex></IfIndex>
      <RewriteType></RewriteType>
      <SVlanID></SVlanID>
      <CVlanID></CVlanID>
      <Symmetric></Symmetric>
    </L3Rewrite>
  </L3Rewrites>
</L2VPN>
```

Table description

Item	Description
Feature name	L2VPN
Table name	L3Rewrites
Table type	Multi-instance table
Row name	L3Rewrite
Restrictions	You must enable L2VPN feature globally at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
RewriteType	RewriteType	N/A	Unsigned integer. Value:	

			• 1: NEST_S • 2: NEST_C • 3: NEST_SC • 8: REMARK_1TO2	
SVlanID	Outer VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
CVlanID	Inner VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
Symmetric	Symmetric	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A.

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L3vpn

L3vpn/L3vpnVRF

This table contains L3VPN VRF basic information.

XML structure

```
<L3vpn>
  <L3vpnVRF>
    <VRF>
      <VRF></VRF>
      <Description></Description>
      <RD></RD>
      <Ipv4RoutingLimit>
        <Ipv4MaxRoutes></Ipv4MaxRoutes>
        <Ipv4RouteThreshold></Ipv4RouteThreshold>
        <Ipv4SimplyAlert></Ipv4SimplyAlert>
      </Ipv4RoutingLimit>
      <Ipv6RoutingLimit>
        <Ipv6MaxRoutes></Ipv6MaxRoutes>
        <Ipv6RouteThreshold></Ipv6RouteThreshold>
        <Ipv6SimplyAlert></Ipv6SimplyAlert>
      </Ipv6RoutingLimit>
      <ExportRoutePolicy></ExportRoutePolicy>
      <EVPNExportRoutePolicy></EVPNExportRoutePolicy>
      <Ipv4ExportRoutePolicy></Ipv4ExportRoutePolicy>
      <Ipv6ExportRoutePolicy></Ipv6ExportRoutePolicy>
      <ImportRoutePolicy></ImportRoutePolicy>
      <EVPNImportRoutePolicy></EVPNImportRoutePolicy>
      <Ipv4ImportRoutePolicy></Ipv4ImportRoutePolicy>
      <Ipv6ImportRoutePolicy></Ipv6ImportRoutePolicy>
    </VRF>
  </L3vpnVRF>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnVRF
Table type	Multi-instance table
Row name	VRF
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
Description	VRF description.	N/A	String, case-sensitive. Length: 1 to 79 characters.	Public instance doesn't support the column.
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A
Ipv4RoutingLimit	The maximum number of active routes limit of ipv4 address family view.	Data structure	Members include: - Ipv4MaxRoutes - Ipv4RouteThreshold - Ipv4SimplyAlert.	Public instance doesn't support the column.
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family view.	N/A	Unsigned integer.	Public instance doesn't support the column.
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutex with Ipv4SimplyAlert. Public instance doesn't support the column.
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: - true—Print syslog. - false—Does not print syslog (default).	Mutex with Ipv4RouteThreshold. Public instance doesn't support the column.
Ipv6RoutingLimit	The maximum number of active routes limit of ipv6 address family view.	Data structure	Members include: - Ipv6MaxRoutes - Ipv6RouteThreshold - Ipv6SimplyAlert.	Public instance doesn't support the column.
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer.	Public instance doesn't support the column.
Ipv6RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	Mutex with Ipv6SimplyAlert. Public instance

				doesn't support the column.
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: - true—Print syslog. - false—Does not print syslog (default).	Mutex with Ipv6RouteThres hold. Public instance doesn't support the column.
ExportRoutePolicy	The export route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
EVPNExportRoutePolicy	The export route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ExportRoutePolicy	The export route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv6ExportRoutePolicy	The export route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
ImportRoutePolicy	The import route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
EVPNImportRoutePolicy	The import route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ImportRoutePolicy	The import route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv6ImportRoutePolicy	The import route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.

L3vpn/L3vpnIf

This table contains L3VPN VRF-interface binding information.

XML structure

```

<L3vpn>
  <L3vpnIf>
    <Bind>
      <VRF></VRF>
      <IfIndex></IfIndex>
    </Bind>
  </L3vpnIf>
</L3vpn>

```



```

    </L3vpnIf>
  </L3vpn>

```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnlf
Table type	Multi-instance table
Row name	Bind
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public instance doesn't support the column.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference. Public instance doesn't support the column.

L3vpn/L3vpnRT

This table contains L3VPN route target information.

XML structure

```

<L3vpn>
  <L3vpnRT>
    <RT>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </RT>
  </L3vpnRT>

```

</L3vpn>

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnRT
Table type	Multi-instance table
Row name	RT
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
AddressFamily	Address family.	Index	Enumeration. 1—IPv4 unicast 2—IPv6 unicast 3—VPN (currently not supported) 4—EVPN	N/A
RTType	RT type.	Index	Enumeration. 1—Import 2—Export	N/A
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1: 1.

L3vpn/L3vpnPeer

This table contains L3VPN peer information.

XML structure

```
<L3vpn>
  <L3vpnPeer>
    <Peer>
      <PeerName></PeerName>
      <PeerId></PeerId>
      <UserProfile></UserProfile>
    </Peer>
  </L3vpnPeer>
</L3vpn>
```

</L3vpnPeer>
</L3vpn>

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnPeer
Table type	Multi-instance table
Row name	Peer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	VPN peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
PeerId	Peer ID	N/A	Unsigned integer. Value range: 1 to 134217727	N/A
UserProfile	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	A user profile name can contain alphabets, digits, and underlines, and it must begin with an alphabet.

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L3vpn

L3vpn/L3vpnVRF

This table contains L3VPN VRF basic information.

XML structure

```
<L3vpn>
  <L3vpnVRF>
    <VRF>
      <VrfIndex>
      </VrfIndex>
      <Description>
      </Description>
      <RD>
      </RD>
      <CreationTime>
      </CreationTime>
      <AssociatedInterfaceCount>
      </AssociatedInterfaceCount>
      <Ipv4RoutingLimit>
        <Ipv4MaxRoutes>
        </Ipv4MaxRoutes>
        <Ipv4RouteThreshold>
        </Ipv4RouteThreshold>
        <Ipv4SimplyAlert>
        </Ipv4SimplyAlert>
      </Ipv4RoutingLimit>
      <Ipv6RoutingLimit>
        <Ipv6MaxRoutes>
        </Ipv6MaxRoutes>
        <Ipv6RouteThreshold>
        </Ipv6RouteThreshold>
        <Ipv6SimplyAlert>
        </Ipv6SimplyAlert>
      </Ipv6RoutingLimit>
      <ExportRoutePolicy>
      </ExportRoutePolicy>
      <EVPNExportRoutePolicy>
      </EVPNExportRoutePolicy>
      <Ipv4ExportRoutePolicy>
      </Ipv4ExportRoutePolicy>
      <Ipv6ExportRoutePolicy>
      </Ipv6ExportRoutePolicy>
      <ImportRoutePolicy>
      </ImportRoutePolicy>
      <Ipv4ImportRoutePolicy>
      </Ipv4ImportRoutePolicy>
      <EVPNImportRoutePolicy>
      </EVPNImportRoutePolicy>
      <Ipv6ImportRoutePolicy>
      </Ipv6ImportRoutePolicy>
    </VRF>
  </L3vpnVRF>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnVRF
Table type	Multi-instance table

Item	Description
Row name	VRF
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	A null string indicates the public instance.
VrfIndex	VRF index.	N/A	Unsigned integer.	N/A
Description	VRF description.	N/A	String, case-sensitive. Length: 1 to 79 characters.	Public instance doesn't support the column.
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn.	N/A
CreationTime	Creation time.	N/A	String. The format is YYYY-MM-DDTHH:MM:SS.	N/A
AssociatedInterfaceCount	The number of interfaces that are binded with this VRF.	N/A	Unsigned integer.	N/A
Ipv4RoutingLimit	The maximum number of active routes limit of ipv4 address family view.	Data structure	Members include: - Ipv4MaxRoutes - Ipv4RouteThreshold - Ipv4SimplyAlert.	N/A
Ipv4MaxRoutes	The maximum number of active routes of ipv4 address family view.	N/A	Unsigned integer.	N/A
Ipv4RouteThreshold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
Ipv4SimplyAlert	Whether to print syslog.	N/A	Boolean: - true—Print syslog. - false—Does not print syslog (default).	Public instance doesn't support the column.
Ipv6RoutingLimit	The maximum number of active routes limit of ipv6 address family view.	Data structure	Members include: - Ipv6MaxRoutes - Ipv6RouteThreshold - Ipv6SimplyAlert.	N/A
Ipv6MaxRoutes	The maximum number of active routes of ipv6 address family view.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6RouteThreshhold	Threshold value.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
Ipv6SimplyAlert	Whether to print syslog.	N/A	Boolean: - true—Print syslog. - false—Does not print syslog (default).	Public instance doesn't support the column.
ExportRoutePolicy	The export route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
EVPNExportRoutePolicy	The export route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ExportRoutePolicy	The export route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv6ExportRoutePolicy	The export route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
ImportRoutePolicy	The import route policy in VPN view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
EVPNImportRoutePolicy	The import route policy in EVPN address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv4ImportRoutePolicy	The import route policy in IPv4 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.
Ipv6ImportRoutePolicy	The import route policy in IPv6 address family view.	N/A	String. Length: 1 to 63 characters.	Public instance doesn't support the column.

L3vpn/L3vpnIf

This table contains L3VPN VRF-interface binding information.

XML structure

```

<L3vpn>
  <L3vpnIf>
    <Bind>
      <VRF></VRF>
      <IfIndex></IfIndex>
    </Bind>
  </L3vpnIf>
</L3vpn>

```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnIf
Table type	Multi-instance table
Row name	Bind
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	Public instance doesn't support the column.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference. Public instance doesn't support the column.

L3vpn/L3vpnRT

This table contains L3VPN Route target information.

XML structure

```
<L3vpn>
  <L3vpnRT>
    <RT>
      <VRF></VRF>
      <AddressFamily></AddressFamily>
      <RTType></RTType>
      <RTEEntry></RTEEntry>
    </RT>
  </L3vpnRT>
</L3vpn>
```


Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnRT
Table type	Multi-instance table
Row name	RT
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
AddressFamily	Address family.	Index	Enumeration. 1—IPv4 unicast 2—IPv6 unicast 3—VPN (currently not supported) 4—EVPN	N/A
RTType	RT type.	Index	Enumeration. 1—Import 2—Export	N/A
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	Example: 100:1 or 192.168.1.1: 1.

L3vpn/L3vpnPeer

This table contains L3VPN peer information.

XML structure

```
<L3vpn>
  <L3vpnPeer>
    <Peer>
      <PeerName></PeerName>
      <PeerId></PeerId>
      <UserProfile></UserProfile>
    </Peer>
  </L3vpnPeer>
</L3vpn>
```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnPeer
Table type	Multi-instance table
Row name	Peer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerName	VPN peer name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
PeerId	Peer ID	N/A	Unsigned integer. Value range: 1 to 134217727	N/A
UserProfile	User profile name	N/A	String, case-sensitive. Length: 1 to 31 characters.	A user profile name can contain alphabets, digits, and underlines, and it must begin with an alphabet.

Appendix

- A string contains only one VRF name.
Example: vpn1,vpn2 (name with comma)
It is going to find the information of the VRF whose name is "vpn1,vpn2", rather than "vpn1" and "vpn2".
Example: vpn1 vpn2 (name with space)
It is going to find the information of the VRF whose name is "vpn1 vpn2", rather than "vpn1" and "vpn2".
- When a VRF's name is the same as another VRF's index, name is used prior to index.
Example: VRF-1's name is vpn and index is 1; VRF-2's name is 1 and index is 2;
When the VrfIndex is assigned to 1, it is considered as VRF-2's name rather than VRF-1's index.

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LAGG

LAGG/Base

This table contains global LAGG information.

XML structure

```
<LAGG>
  <Base>
    <SystemPriority></SystemPriority>
    <LoadSharingMode></LoadSharingMode>
  </Base>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
SystemPriority	Priority assigned to the local system	N/A	Unsigned integer Value range: 0 to 65535. Default: 32768. The smaller the value, the higher the system LACP priority.

Column name	Column description	Column type	Data type and restrictions
LoadSharingMode	Global link-aggregation load sharing mode.	N/A	Unsigned integer64. Default: 0. Ingress Port is encoded in bit 1. Destination MAC is encoded in bit 2. Source MAC is encoded in bit 3. Destination IP is encoded in bit 4. Source IP is encoded in bit 5. VLAN ID is encoded in bit 6. Layer 4 destination-port is encoded in bit 7. Layer 4 source-port is encoded in bit 8. IP Protocol is encoded in bit 9. MPLS Label1 is encoded in bit 10. MPLS Label2 is encoded in bit 11. MPLS Label3 is encoded in bit 12. Packet type-based sharing is encoded in bit 13. Per-packet is encoded in bit 14.

LAGG/Groups

This table contains information about link aggregation groups.

XML structure

```

<LAGG>
  <LAGGGroups>
    <LAGGGroup>
      <GroupId></GroupId>
      <LinkMode></LinkMode>
      <LacpEdgeEnable></LacpEdgeEnable>
      <LoadSharingMode></LoadSharingMode>
    </LAGGGroup>
  </LAGGGroups>
</LAGG>

```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGGroups
Table type	Multi-instance table
Row name	LAGGGroup
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Aggregation group ID	Index	Unsigned integer. Value range: - Layer 2 aggregation group: 1 to 16384. - Layer 3 aggregation group: 16385 to 32768. - Blade aggregation group: 32769 to 36864. - S-channel bundle group: 36865 to 40960.
LinkMode	Link aggregation mode	N/A	Enumeration: 1—Static (default). 2—Dynamic. Not configured for blade aggregation group.
LacpEdgeEnable	Edge aggregate interface feature	N/A	Boolean: true—Enabled. false—Disabled(default). Not configured for blade aggregation group.
LoadSharingMode	Link-aggregation load sharing mode	N/A	Unsigned integer64. Default: 0. Ingress Port is encoded in bit 1. Destination MAC is encoded in bit 2. Source MAC is encoded in bit 3. Destination IP is encoded in bit 4. Source IP is encoded in bit 5. VLAN ID is encoded in bit 6. Layer 4 destination-port is encoded in bit 7. Layer 4 source-port is encoded in bit 8. IP Protocol is encoded in bit 9. MPLS Label1 is encoded in bit 10. MPLS Labe2 is encoded in bit 11. MPLS Labe3 is encoded in bit 12. Packet type-based sharing is encoded in bit 13. Per-packet is encoded in bit 14. Not configured for S-channel bundle group.

LAGG/Members

This table contains information about link aggregation members.

XML structure

```
<LAGG>
  <LAGGMembers>
    <LAGGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
      <LacpMode></LacpMode>
      <LacpShortPeriodEnable></LacpShortPeriodEnable>
      <ActorPortPriority></ActorPortPriority>
    </LAGGMember>
  </LAGGMembers>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGMembers
Table type	Multi-instance table
Row name	LAGGMember
Restrictions	This table supports only Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Member port index	Index	Unsigned integer.
GroupId	Aggregation group ID	N/A	Unsigned integer. Value range: - Layer 2 aggregation group: 1 to 16384. - Layer 3 aggregation group: 16385 to 32768. - S-channel bundle group: 36865 to 40960. - Default: 0. Not assigned to any link aggregation group.

Column name	Column description	Column type	Data type and restrictions
LacpMode	LACP mode of a member port	N/A	Enumeration: • 1—Active (default). • 2—Passive.
LacpShortPeriodEnable	LACP short period function	N/A	Boolean: • true—Enabled. • false—Disabled (default).
ActorPortPriority	Priority assigned to this local port	N/A	Unsigned integer Value range: 0 to 65535 Default: 32768. The smaller the value, the higher the system LACP priority.

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Table description	2
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XML structure	4
Table description	5
Columns	5

LAGG

LAGG/Base

This table contains global LAGG information.

XML structure

```
<LAGG>
  <Base>
    <SystemID></SystemID>
    <SystemPriority></SystemPriority><LoadSharingMode></LoadSharingMode>
  </Base>
</LAGG>
```

Table description

Item	Description
Feature name	LAGG
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
SystemID	The Actor's System ID	N/A	A 6-octet MAC address value.
SystemPriority	The priority assigned to the Actor System	N/A	Unsigned integer: 0 to 65535. The smaller the value, the higher the system LACP priority.

Column name	Column description	Column type	Data type and restrictions
LoadSharingMode	Global link-aggregation load sharing mode.	N/A	Unsigned integer64. Ingress Port is encoded in bit 1. Destination MAC is encoded in bit 2. Source MAC is encoded in bit 3. Destination IP is encoded in bit 4. Source IP is encoded in bit 5. VLAN ID is encoded in bit 6. Layer 4 destination-port is encoded in bit 7. Layer 4 source-port is encoded in bit 8. IP Protocol is encoded in bit 9. MPLS Label1 is encoded in bit 10. MPLS Label2 is encoded in bit 11. MPLS Label3 is encoded in bit 12. Packet type-based sharing is encoded in bit 13. Per-packet is encoded in bit 14.

LAGG/Groups

This table contains link aggregation group information.

XML structure

```

<LAGG>
  <LAGGGroups>
    <LAGGGroup>
      <GroupId></GroupId>
      <LinkMode></LinkMode>
      <IfIndex></IfIndex>
      <MemberList></MemberList>
      <SelectedMemberList></SelectedMemberList>
      <LacpEdgeEnable></LacpEdgeEnable>
      <LoadSharingMode></LoadSharingMode>
      <PartnerSystemID></PartnerSystemID>
      <PartnerSystemPriority></PartnerSystemPriority>
    </LAGGGroup>
  </LAGGGroups>
</LAGG>

```

Table description

Item	Description
Feature name	LAGG

Item	Description
Table name	LAGGGroups
Table type	Multi-instance table
Row name	LAGGGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Aggregation group ID	Index	Unsigned integer. - Layer 2 aggregation group: 1 to 16384. - Layer 3 aggregation group: 16385 to 32768. - Blade aggregation group: 32769 to 36864. - S-channel bundle group: 36865 to 40960.
LinkMode	Link aggregation mode	N/A	Enumeration: 1—Static. 2—Dynamic.
IfIndex	Aggregate interface index	N/A	Unsigned integer.
MemberList	Member list	N/A	Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, etc. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Thus, each port of the bridge is represented by a single bit within the value of this object. If that bit has a value of '1' then that port is included in the set of ports; the port is not included if its bit has a value of '0'.
SelectedMemberList	Selected member list	N/A	Bitmap. No length restrictions. Same restriction with MemberList.
LacpEdgeEnable	Edge aggregate interface feature	N/A	Boolean: true—Enabled. false—Disabled.

Column name	Column description	Column type	Data type and restrictions
LoadSharingMode	Link-aggregation load sharing mode	N/A	Unsigned integer64. Ingress Port is encoded in bit 1. Destination MAC is encoded in bit 2. Source MAC is encoded in bit 3. Destination IP is encoded in bit 4. Source IP is encoded in bit 5. VLAN ID is encoded in bit 6. Layer 4 destination-port is encoded in bit 7. Layer 4 source-port is encoded in bit 8. IP Protocol is encoded in bit 9. MPLS Label1 is encoded in bit 10. MPLS Label2 is encoded in bit 11. MPLS Label3 is encoded in bit 12. Packet type-based sharing is encoded in bit 13. Per-packet is encoded in bit 14.
PartnerSystemID	The Partner's System ID	N/A	A 6-octet MAC address value. A value of zero indicates that there is no known Partner or the aggregation is static mode.
PartnerSystemPriority	The priority assigned to the Partner System	N/A	Unsigned integer: 0 to 65535 Default value is 32768. The smaller the value, the higher the system LACP priority.

LAGG/Members

This table contains aggregation member port information.

XML structure

```

<LAGG>
  <LAGGMembers>
    <LAGGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
      <SelectedStatus></SelectedStatus>
      <UnSelectedReason></UnSelectedReason>
      <LacpEnable></LacpEnable>
      <LacpMode></LacpMode>
      <LacpShortPeriodEnable></LacpShortPeriodEnable>
      <ActorPortPriority></ActorPortPriority>
      <ActorState></ActorState>
      <ActorOperKey></ActorOperKey>
      <ActorPort></ActorPort>
    </LAGGMember>
  </LAGGMembers>
</LAGG>

```

```

    <PartnerSystemID></PartnerSystemID>
    <PartnerSystemPriority></PartnerSystemPriority>
    <PartnerPortPriority></PartnerPortPriority>
    <PartnerState></PartnerState>
    <PartnerOperKey></PartnerOperKey>
    <PartnerPort></PartnerPort>
  </LAGGMember>
</LAGGMembers>
</LAGG>

```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGMembers
Table type	Multi-instance table
Row name	LAGGMember
Restrictions	This table supports only Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Member port index	Index	Unsigned integer.
GroupId	Aggregation group ID	N/A	Unsigned integer. 0: Not assigned to any link aggregation group. - Layer 2 aggregation group: 1 to 16384. - Layer 3 aggregation group: 16385 to 32768. - Blade aggregation group: 32769 to 36864. - S-channel bundle group: 36865 to 40960.
SelectedStatus	Selected status of a member port	N/A	Enumeration: 1—Selected. 2—Unselected. 3—Individual.

Column name	Column description	Column type	Data type and restrictions
UnSelectedReason	Unselected reason of a member port	N/A	Enumeration: • 0—The port is attached to this aggregator. Indicate that selected status of a member port is Selected or Individual. • 1—The current number of active ports has reached the upper limit. • 2—All aggregation resources are already in-use. • 3—The port's configuration is improper for being attached. • 4—The port's partner is improper for being attached. • 5—The number of current active ports has not reached the lower limit. • 6—The port's physical state (down) is improper for being attached. • 7—The port is not selected for an aggregator. • 8—The port's hardware restriction is improper for being attached. • 9—The port's speed is improper for being attached. • 10—The port's duplex mode is improper for being attached.
LacpEnable	LACP enable flag of a member port	N/A	Boolean: • true—Enabled. • false—Disabled.
LacpMode	LACP mode of a member port	N/A	Enumeration: • 1—Active. • 2—Passive.
LacpShortPeriodEnable	LACP short period function	N/A	Boolean: • true—Enabled. • false—Disabled.
ActorPortPriority	The priority assigned to this port by the Actor	N/A	Unsigned integer Value eange: 0 to 65535 The smaller the value, the higher the system LACP priority.

Column name	Column description	Column type	Data type and restrictions
ActorState	The Actor's state variables for the port	N/A	Encoded as individual bits within a single octet • LACP_Activity is encoded in bit 0. This flag indicates the Activity control value with regard to this link. Active LACP is encoded as a 1; Passive LACP is encoded as a 0. • LACP_Timeout is encoded in bit 1. This flag indicates the Timeout control value with regard to this link. Short Timeout is encoded as a 1; Long Timeout is encoded as a 0. • Aggregation is encoded in bit 2. If TRUE (encoded as a 1), this flag indicates that the System considers this link to be Aggregatable. If FALSE (encoded as a 0), the link is considered to be Individual. • Synchronization is encoded in bit 3. If TRUE (encoded as a 1), the System considers this link to be IN_SYNC. If FALSE (encoded as a 0), then this link is currently OUT_OF_SYNC. • Collecting is encoded in bit 4. TRUE (encoded as a 1) means collection of incoming frames on this link is definitely enabled. Its value is otherwise FALSE (encoded as a 0). • Distributing is encoded in bit 5. FALSE (encoded as a 0) means distribution of outgoing frames on this link is definitely disabled. Its value is otherwise TRUE (encoded as a 1). • Defaulted is encoded in bit 6. If TRUE (encoded as a 1), this flag indicates that the Actor's Receive machine is using Defaulted operational Partner information, administratively configured for the Partner. If FALSE (encoded as a 0), the operational Partner information in use has been received in a LACPDU; • Expired is encoded in bit 7. If TRUE (encoded as a 1), this flag indicates that the Actor's Receive machine is in the EXPIRED state; if FALSE (encoded as a 0), this flag indicates that the Actor's Receive machine is not in the EXPIRED state.

Column name	Column description	Column type	Data type and restrictions
ActorOperKey	The operational Key value assigned to the port by the Actor	N/A	Unsigned integer
ActorPort	The port number assigned to the port by the Actor	N/A	Unsigned integer
PartnerSystemID	The Partner's System ID	N/A	A 6-octet MAC address value. A value of zero indicates that there is no known Partner or the aggregation is static mode.
PartnerSystemPriority	The priority assigned to the Partner System	N/A	Unsigned integer Value eange: 0 to 65535 The smaller the value, the higher the system LACP priority.
PartnerPortPriority	The priority assigned to this port by the Partner	N/A	Unsigned integer Value eange: 0 to 65535 The smaller the value, the higher the system LACP priority.
PartnerState	The Partner's state variables for the port	N/A	Encoded as individual bits within a single octet. Encoded meaning in every bits relate to ActorState.
PartnerOperKey	The operational Key value assigned to the port by the Partner	N/A	Unsigned integer.
PartnerPort	The port number assigned to the port by the Partner	N/A	Unsigned integer.

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LB

LB/ClearVirtualServerStats

This table is used to clear the statistics of the virtual server.

XML structure

```
<LB>
  <ClearVirtualServerStats>
    <ClearVirtualServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearVirtualServerStat>
  </ClearVirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearVirtualServerStats
Table type	Multi-instance table
Row name	ClearVirtualServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified virtual server.	N/A	This column must be empty.	N/A

LB/ClearAllVirtualServerStats

This table is used to clear all virtual servers' statistics.

XML structure

```
<LB>
  <ClearAllVirtualServerStats>
    <Clear></Clear>
  </ClearAllVirtualServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllVirtualServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all virtual servers' statistics.	N/A	This column must be empty.	N/A

LB/ClearRealServerStats

This table is used to clear the statistics of the real server.

XML structure

```
<LB>
  <ClearRealServerStats>
    <ClearRealServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearRealServerStat>
  </ClearRealServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearRealServerStats
Table type	Multi-instance table
Row name	ClearRealServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified real server.	N/A	This column must be empty.	N/A

LB/ClearAllRealServerStats

This table is used to clear all real servers' statistics.

XML structure

```
<LB>
  <ClearAllRealServerStats>
    <Clear></Clear>
  </ClearAllRealServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllRealServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all real servers' statistics.	N/A	This column must be empty.	N/A

LB/Dellpv4Proximities

This table is used to delete IPv4 proximity which belongs to the specified VPN.

XML structure

```
<LB>
  <DelIpv4Proximities>
    <DelIpv4Proximity>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Delete></Delete>
    </DelIpv4Proximity>
  </DelIpv4Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Dellpv4Proximities
Table type	Multi-instance table
Row name	Dellpv4Proximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Delete	Action of deleting the specified IPv4 proximity.	N/A	This column must be empty.	N/A

LB/DelAllIPv4Proximities

This table is used to delete all IPv4 proximities.

XML structure

```
<LB>
  <DelAllIPv4Proximities>
    <Delete></Delete>
  </DelAllIPv4Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelAllIpv4Proximities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting all IPv4 proximities.	N/A	This column must be empty.	N/A

LB/DelIpv6Proximities

This table is used to delete IPv6 proximity which belongs to the specified VPN.

XML structure

```
<LB>
  <DelIpv6Proximities>
    <DelIpv6Proximity>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Delete></Delete>
    </DelIpv6Proximity>
  </DelIpv6Proximities>
</LB>
```


Table description

Item	Description
Feature name	LB
Table name	DellIpv6Proximities
Table type	Multi-instance table
Row name	DellIpv6Proximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Delete	Action of deleting the specified IPv6 proximity.	N/A	This column must be empty.	N/A

LB/DelAllIpv6Proximities

This table is used to delete all IPv6 proximities.

XML structure

```
<LB>
  <DelAllIpv6Proximities>
    <Delete></Delete>
  </DelAllIpv6Proximities>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DelAllIpv6Proximities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting all IPv6 proximities.	N/A	This column must be empty.	N/A

LB/TestIpv4Routes

This table is used to test IPv4 route in the specified VPN.

XML structure

```
<LB>
  <TestIpv4Routes>
    <TestIpv4Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv4Address></DstIpv4Address>
      <SrcIpv4Address></SrcIpv4Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv4Route>
  </TestIpv4Routes>
</LB>
```

Responded XML structure

```
<LB>
  <TestIpv4Routes>
    <TestIpv4Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv4Address></DstIpv4Address>
      <SrcIpv4Address></SrcIpv4Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VirtualServer></VirtualServer>
      <ZoneType></ZoneType>
      <Class></Class>
```

```

    <ForwardType></ForwardType>
    <DropType></DropType>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <LinkGroup></LinkGroup>
    <Link></Link>
    <ScheduleType></ScheduleType>
  </TestIpv4Route>
</TestIpv4Routes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TestIpv4Routes
Table type	Multi-instance table
Row name	TestIpv4Route
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv4 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv4Address	IPv4 destination address.	Index	String. Dotted decimal notation.	N/A
SrcIpv4Address	IPv4 source address.	Index	String. Dotted decimal notation.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 255.	
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv4 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv4Address	IPv4 destination address.	Index	String. Dotted decimal notation.	N/A
SrcIpv4Address	IPv4 source address.	Index	String. Dotted decimal notation.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ZoneType	Zone type of the result.	N/A	Enumeration: 0—Class. 1—Default class. 2—Default server farm. 3—Default link group.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the result.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—Server farm. 4—Address of LB device. 5—Match HTTP virtual server. 6—No matched virtual server. 7—Link group.	N/A
DropType	Drop reason of the result	N/A	Enumeration: 1—Action drop. 2—Virtual server limited. 3—No real server. 4—No class or server farm. 5—Match sticky but real server limited. 6—No server farm in action. 7—No link. 8—No class or link group. 9—Match sticky but link limited. 10—No link group in action.	N/A
ServerFarm	Name of the sever farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RealServer	Name of the real server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Link	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleType	The method of selecting real server.	N/A	Enumeration: 0—Algorithm. 1—Sticky. 2—Proximity.	N/A

LB/TestIpv6Routes

This table is used to test IPv6 route in the specified VPN.

XML structure

```

<LB>
  <TestIpv6Routes>
    <TestIpv6Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv6Address></DstIpv6Address>
      <SrcIpv6Address></SrcIpv6Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </TestIpv6Route>
  </TestIpv6Routes>
</LB>

```

Responded XML structure

```

<LB>
  <TestIpv6Routes>
    <TestIpv6Route>
      <VRF></VRF>
      <Protocol></Protocol>
      <DstIpv6Address></DstIpv6Address>
      <SrcIpv6Address></SrcIpv6Address>
      <DstPort></DstPort>
      <SrcPort></SrcPort>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VirtualServer></VirtualServer>
      <ZoneType></ZoneType>
      <Class></Class>
    </TestIpv6Route>
  </TestIpv6Routes>
</LB>

```

```

    <ForwardType></ForwardType>
    <DropType></DropType>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <LinkGroup></LinkGroup>
    <Link></Link>
    <ScheduleType></ScheduleType>
  </TestIpv6Route>
</TestIpv6Routes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TestIpv6Routes
Table type	Multi-instance table
Row name	TestIpv6Route
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv6 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv6Address	IPv6 destination address.	Index	Hexadecimal string, colon-separated.	N/A
SrcIpv6Address	IPv6 source address.	Index	Hexadecimal string, colon-separated.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	If Protocol isn't TCP (6) or UDP (17), this column must be zero.
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 255.	
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Protocol	IPv6 protocol number.	Index	Unsigned integer. Value range: 0 to 255.	N/A
DstIpv6Address	IPv6 destination address.	Index	Hexadecimal string, colon-separated.	N/A
SrcIpv6Address	IPv6 source address.	Index	Hexadecimal string, colon-separated.	N/A
DstPort	Destination port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPort	Source port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VirtualServer	Name of the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ZoneType	Zone type of the result.	N/A	Enumeration: 0—Class. 1—Default class. 2—Default server farm. 3—Default link group.	N/A
Class	Name of the	N/A	String, case-insensitive.	The null string indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
	class.		Length: 0 to 63 characters.	the label is not configured.
ForwardType	Forward mode of the result.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—Server farm. 4—Address of LB device. 5—Match HTTP virtual server. 6—No matched virtual servers. 7—Link group.	N/A
DropType	Drop reason of the result	N/A	Enumeration: 1—Action drop. 2—Virtual server limited. 3—No real server. 4—No class or server farm. 5—Match sticky but real server limited. 6—No server farm in action. 7—No link. 8—No class or link group. 9—Match sticky but link limited. 10—No link group in action.	N/A
ServerFarm	Name of the sever farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RealServer	Name of the real server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Link	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
ScheduleType	The method of selecting real server.	N/A	Enumeration: 0—Algorithm. 1—Sticky. 2—Proximity.	N/A

LB/DelVRFProximities

This table is used to delete all proximities which belong to the specified VPN.

XML structure

```

<LB>
  <DelVRFProximities>
    <DelVRFProximity>
      <VRF></VRF>
      <AF></AF>
      <Delete></Delete>
    </DelVRFProximity>
  </DelVRFProximities>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DelVRFProximities
Table type	Multi-instance table
Row name	DelVRFProximity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
AF	Address family.	Index	Enumeration: 1—IPv4. 2—IPv6. 3—All.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Delete	Action of deleting the specified VPN proximities.	N/A	This column must be empty.	N/A

LB/ClearLinkStatistics

This table is used to clear the statistics of the link.

XML structure

```
<LB>
  <ClearLinkStatistics>
    <ClearLinkStatistic>
      <Name></Name>
      <Clear></Clear>
    </ClearLinkStatistic>
  </ClearLinkStatistics>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearLinkStatistics
Table type	Multi-instance table
Row name	ClearLinkStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified link.	N/A	This column must be empty.	N/A

LB/ClearAllLinkStatistics

This table is used to clear all links statistics.

XML structure

```
<LB>
  <ClearAllLinkStatistics>
    <Clear></Clear>
  </ClearAllLinkStatistics>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllLinkStatistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all links statistics.	N/A	This column must be empty.	N/A

LB/ClearDNSListenerStats

This table is used to clear the statistics of the DNS listener.

XML structure

```
<LB>
  <ClearDNSListenerStats>
    <ClearDNSListenerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearDNSListenerStat>
  </ClearDNSListenerStats>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	ClearDNSListenerStats
Table type	Multi-instance table
Row name	ClearDNSListenerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS listener.	N/A	This column must be empty.	N/A

LB/ClearAllDNSListenerStats

This table is used to clear all DNS listener' statistics.

XML structure

```

<LB>
  <ClearAllDNSListenerStats>
    <Clear></Clear>
  </ClearAllDNSListenerStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSListenerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS listener' statistics.	N/A	This column must be empty.	N/A

LB/ClearDNSServerStats

This table is used to clear the statistics of the DNS server.

XML structure

```
<LB>
  <ClearDNSServerStats>
    <ClearDNSServerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearDNSServerStat>
  </ClearDNSServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSServerStats
Table type	Multi-instance table
Row name	ClearDNSServerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the specified DNS server.	N/A	This column must be empty.	N/A

LB/ClearAllDNSServerStats

This table is used to clear all DNS servers' statistics.

XML structure

```
<LB>
  <ClearAllDNSServerStats>
    <Clear></Clear>
  </ClearAllDNSServerStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSServerStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS servers' statistics.	N/A	This column must be empty.	N/A

LB/ClearDNSProxyStats

This table is used to clear the statistics of the DNS proxy.

XML structure

```
<LB>
  <ClearDNSProxyStats>
    <ClearDNSProxyStat>
```

```

    <Name></Name>
    <Clear></Clear>
  </ClearDNSProxyStat>
</ClearDNSProxyStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClearDNSProxyStats
Table type	Multi-instance table
Row name	ClearDNSProxyStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS proxy.	N/A	This column must be empty.	N/A

LB/ClearAllDNSProxyStats

This table is used to clear all DNS proxies' statistics.

XML structure

```

<LB>
  <ClearAllDNSProxyStats>
    <Clear></Clear>
  </ClearAllDNSProxyStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClearAllDNSProxyStats
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear all DNS proxies' statistics.	N/A	This column must be empty.	N/A

LB/ClearClassCounter

This table is used to clear all rule match counter statistics of a class.

XML structure

```

<LB>
  <ClearClassCounters>
    <ClearClassCounter>
      <ClassName></ClassName>
      <Clear></Clear>
    </ClearClassCounter>
  </ClearClassCounters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClearClassCounters
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Name of the class proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	
Clear	Action of clearing rule match counter statistics.	N/A	This column must be empty.	N/A

LB/ClearAllClassCounter

This table is used to clear rule match counter statistics of all classes.

XML structure

```
<LB>
  <ClearAllClassCounters>
    <Clear></Clear>
  </ClearAllClassCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllClassCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear rule match counter statistics of all classe.	N/A	This column must be empty.	N/A

LB/ClearIpv4ProximityCounter

This table is used to clear the used counter statistics for the IPv4 proximity of a VPN instance.

XML structure

```
<LB>
  <ClearIpv4ProximityCounters>
    <ClearIpv4ProximityCounter>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Clear></Clear>
    </ClearIpv4ProximityCounter>
  </ClearIpv4ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearIpv4ProximityCounters
Table type	Multi-instance table
Row name	ClearIpv4ProximityCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Clear	Action of clearing the count of the specified IPv4 proximity.	N/A	This column must be empty.	N/A

LB/ClearAllIpv4ProximityCounter

This table is used to clear the used counter statistics of all IPv4 proximities.

XML structure

```
<LB>
  <ClearAllIpv4ProximityCounters>
    <Clear></Clear>
  </ClearAllIpv4ProximityCounters>
```

</LB>

Table description

Item	Description
Feature name	LB
Table name	ClearAllIpv4ProximityCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the count of all IPv4 proximities.	N/A	This column must be empty.	N/A

LB/ClearIpv6ProximityCounter

This table is used to clear the used counter statistics for the IPv6 proximity of a VPN instance.

XML structure

```
<LB>
  <ClearIpv6ProximityCounters>
    <ClearIpv6ProximityCounter>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Clear></Clear>
    </ClearIpv6ProximityCounter>
  </ClearIpv6ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearIpv6ProximityCounters
Table type	Multi-instance table
Row name	ClearIpv6ProximityCounter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates the public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Clear	Action of clearing the the count of the specified IPv6 proximity.	N/A	This column must be empty.	N/A

LB/ClearAllIpv6ProximityCounter

This table is used to clear the used counter statistics of all IPv6 proximities.

XML structure

```
<LB>
  <ClearAllIpv6ProximityCounters>
    <Clear></Clear>
  </ClearAllIpv6ProximityCounters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ClearAllIpv6ProximityCounters
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Action of clearing the count of all IPv6 proximities.	N/A	This column must be empty.	N/A

LB/ReloadHTTPResponses

This table is used to reload an HTTP response file.

XML structure

```
<LB>
  <ReloadHTTPResponses>
    <ReloadHTTPResponse>
      <FileName></FileName>
      <Reload></Reload>
    </ReloadHTTPResponse>
  </ReloadHTTPResponses>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ReloadHTTPResponses
Table type	Multi-instance table
Row name	ReloadHTTPResponse
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the file for the response.	Index	String, case-insensitive. Length: 1 to 255 characters.	
Reload	Action of reloading the response file.	N/A	This column must be empty.	N/A

LB/ReloadAllHTTPResponses

This table is used to reload all HTTP response files.

XML structure

```
<LB>
```

```

<ReloadAllHTTPResponses>
  <ReloadAllHTTPResponse>
    <Reload></Reload>
  </ReloadAllHTTPResponse>
</ReloadAllHTTPResponses>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ReloadAllHTTPResponses
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reload	Reload all response files.	N/A	This column must be empty.	N/A

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LB

LB/HTTPVirtualServers

This table contains information about HTTP and fast HTTP virtual servers.

XML structure

```
<LB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <HTTPParameter></HTTPParameter>
      <OneConnectParameter></OneConnectParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
      <RedirectRelocation></RedirectRelocation>
      <RedirectReturnCode></RedirectReturnCode>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP and FASTHTTP virtual servers can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—HTTP. 1—FASTHTTP	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 80.	N/A
DefaultServerFarm	Name of the default server	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	farm.		Length: 1 to 63 characters.	
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
HTTPParameter	Parameter whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
OneConnectParameter	Parameter whose type is OneConnect for the virtual server	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 0 KB/s, which indicates no limit.	
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can be configured only when the type is HTTP (0).
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can only be configured when the type is HTTP (0).
RedirectRelocation	Redirection URL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the type is HTTP (0). The column which has two special usages, analyses host and URL from requests. Only three symbols such as 'p', 'h' and '%' can be put behind '%'. Two '%' are regarded as one '%', process can handle, so the number of '%' must be even. They input below, except '%%%p' and '%%%h'. '%p' and '%h' only have one occurrence in the messages.
RedirectReturnCode	Redirection condition code.	N/A	Enumeration: 301—The requested resource has been permanently moved. 302—The requested resource has been temporarily moved (default).	This column can only be configured when the type of the virtual server is HTTP (0).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s, which	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			indicates no outbound limit.	
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	This column can only be configured when the Type is FASTHTTP (1).
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
HTTPCompressionParameter	Parameter whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is HTTP (0)
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/GenericVirtualServers

This table contains information about IP, TCP and UDP virtual servers.

XML structure

```

<LB>
  <GenericVirtualServers>
    <GenericVirtualServer>
      <Name></Name>
      <Type></Type>

```

```

<Description></Description>
<VRF></VRF>
<Ipv4Address></Ipv4Address>
<Ipv4PrefixLength></Ipv4PrefixLength>
<Ipv6Address></Ipv6Address>
<Ipv6PrefixLength></Ipv6PrefixLength>
<PortNumber></PortNumber>
<PortNumberList></PortNumberList>
<DefaultServerFarm></DefaultServerFarm>
<BackupServerFarm></BackupServerFarm>
<DefaultLinkGroup></DefaultLinkGroup>
<BackupLinkGroup></BackupLinkGroup>
<StickyGroup></StickyGroup>
<Policy></Policy>
<IPParameter></IPParameter>
<TCPParameter></TCPParameter>
<SSLServerPolicy></SSLServerPolicy>
<MaxConnectionLimit></MaxConnectionLimit>
<RateLimitConnection></RateLimitConnection>
<RateLimitBandwidth></RateLimitBandwidth>
<UDPPerPacket></UDPPerPacket>
<ServiceEnable></ServiceEnable>
<RateLimitInBandwidth></RateLimitInBandwidth>
<RateLimitOutBandwidth></RateLimitOutBandwidth>
<BusyProtectEnable></BusyProtectEnable>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
<ConnSynEnable></ConnSynEnable>
<StickySynEnable></StickySynEnable>
<LimitPolicy></LimitPolicy>
<RouteAdvertisementEnable></RouteAdvertisementEnable>
</GenericVirtualServer>
</GenericVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	GenericVirtualServers
Table type	Multi-instance table
Row name	GenericVirtualServer
Restrictions	Only IP, TCP , UDP and LINK-IP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—IP. 1—TCP. 2—UDP. 3—LINK-IP.	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.

Column name	Column description	Column type	Data type and restrictions	Remarks
			the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 8.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
DefaultLinkGroup	Name of the default link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupLinkGroup	Name of the backup link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default link group is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can only be configured when the Type is TCP (1).
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	This column can be configured only when the Type is TCP (1).
MaxConnectionLimit	Maximum connection	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit.		$2^{32}-1$. By default, the value is 0, which indicates no limit.	
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: 0—Disable (default). 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth	N/A	Enumeration: 0—Using LB bandwidth statistics (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protection.		1—Using interface bandwidth statistics.	
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```

<LB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</LB>

```

```

<RateLimitOutBandwidth></RateLimitOutBandwidth>
<BusyProtectEnable></BusyProtectEnable>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
<ConnSynEnable></ConnSynEnable>
<StickySynEnable></StickySynEnable>
<LimitPolicy></LimitPolicy>
<RouteAdvertisementEnable></RouteAdvertisementEnable>
</RADIUSVirtualServer>
</RADIUSVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumberList	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. Value range: 0 to 65535. By default, the value is 0. Items range: 1 to 8.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit.
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			no limit.	
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: 0—Disable (default). 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization	N/A	Enumeration: 0—Disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	n.		(default). • 1—Enable.	
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: • 0—Disable (default). • 1—Enable.	N/A

LB/SIPVirtualServers

This table contains information about SIPUDP and SIPTCP virtual servers.

XML structure

```

<LB>
  <SIPVirtualServers>
    <SIPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
    </SIPVirtualServer>
  </SIPVirtualServers>

```

```
</SIPVirtualServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SIPVirtualServers
Table type	Multi-instance table
Row name	SIPVirtualServer
Restrictions	Only SIP-UDP and SIP-TCP virtual server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—SIP-UDP 1—SIP-TCP	When a virtual server is created, the column must be specified. Once created, this column cannot be changed.
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters. By default, no VRF is specified.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 5060.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0, which indicates no limit.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s, which indicates no limit.	N/A
UDPPerPacket	Enable the UDP per-packet load balancing.	N/A	Enumeration: 0—Disable (default). 1—Enable.	This column can only be configured when the Type is UDP (2).
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Enable.	
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0, which indicates no outbound limit.	N/A
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics which is used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics.	N/A
ConnSyncEnable	Enable the connection synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
StickySyncEnable	Enable the sticky synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/RealServers

This table contains information about real server.

XML structure

```
<LB>
  <RealServers>
    <RealServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
      <Priority></Priority>
      <ServerFarm></ServerFarm>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <Cost></Cost>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
    </RealServer>
  </RealServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServers
Table type	Multi-instance table
Row name	RealServer
Restrictions	Only Real server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the real server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no Ipv4Address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no Ipv6Address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
Weight	Weight of the real server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the real server.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
ServerFarm	Name of the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no server farm is specified.	N/A
Shutdown	Shutdown state for the real server.	N/A	Enumeration: 0—Not configured (default). 1—Shutdown. 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit number.		$2^{32}-1$. By default, the value is 0 which indicates no preset limit.	
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s which indicates no preset limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0 which indicates that probe success criteria is all.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset inbound limit.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset outbound limit.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRecoveryRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoveryRatio	Outbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
BandwidthBusyRecoveryRatio	Total bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240. By default, the value is 0 which indicates that cost factor can be ignore when calculate proximities.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
VRF	VRF name	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			case-insensitive. Length: 0 to 31 characters.	
InheritVPN	Inherit the VPN of virtual server	N/A	Enumeration: 0—Disable inherit the VPN (default). 1—Enable inherit the VPN.	N/A

LB/RealServerProbes

This table contains information about Real Server Probe that only uses NQA template.

XML structure

```

<LB>
  <RealServerProbes>
    <RealServerProbe>
      <RealServer></RealServer>
      <Probe></Probe>
    </RealServerProbe>
  </RealServerProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RealServerProbes
Table type	Multi-instance table
Row name	RealServerProbe
Restrictions	Only Real server probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the real server.		Length: 1 to 32 characters.	

LB/ServerFarms

This table contains information about server farm.

XML structure

```

<LB>
  <ServerFarms>
    <ServerFarm>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProximityEnable></ProximityEnable>
    </ServerFarm>
  </ServerFarms>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ServerFarms
Table type	Multi-instance table
Row name	ServerFarm
Restrictions	Only server farm can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the server farm.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a real server to serve a client request.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 9—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max outbound bandwidth. • 12—Strict round-robin.	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash source address (3), hash source port (4) and hash destination address (5).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column can only be configured when the Predictor hash source address (3), hash source port (4) and hash destination address (5).
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured which indicates only	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.

Column name	Column description	Column type	Data type and restrictions	Remarks
			the real server of highest priority can be dispatched.	
SelectServerMaxNumber	Maximum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
SlowOnlineEnable	Enable the server farm slow online.	N/A	Enumeration: 0—Disable (default). 1—Enable.	If the column is 0, SlowOnlineStandbyTime and SlowOnlineRampUpTime cannot be configured without default value.
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second. By default, the value is 5.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second. By default, the value is 5.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
ActivateLower	The status of main server farm will be changed from in use to backup when the ratio of the available real servers in main server farm becomes smaller than this value.	N/A	Unsigned integer. Value range: 1 to 99. By default, the column is not configured which indicates if one real server is active, the server farm is active.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
ActivateUpper	The status of main server farm will be changed from backup to in use when the ratio of the available real servers in main server farm reaches or over this value.		Unsigned integer. Value range: 1 to 99. By default, the column is not configured.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.

Column name	Column description	Column type	Data type and restrictions	Remarks
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any real server fails in a server farm.	N/A	Enumeration: 0—Keep (default). 1—Reset. 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that real server is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0.	By default, indicates that when real server is available, all results of probes must be success.
ProximityEnable	Enable the proximity.	N/A	Enumeration: 0—disable (default). 1—enable.	N/A

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```

<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
    </ServerFarmProbe>
  </ServerFarmProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmProbes
Table type	Multi-instance table
Row name	ServerFarmProbe

Restrictions	Only server farm probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the server farm.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/SNAT Pools

This table contains information about SNAT pool.

XML structure

```

<LB>
  <SNATPools>
    <SNATPool>
      <Name></Name>
      <Description></Description>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SNATPool>
  </SNATPools>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	Only SNAT pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT Pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the SNAT Pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4AddressStart	Start IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation. By default, no IPv4 addressStart is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured.
Ipv4AddressEnd	End IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation. By default, no IPv4 addressEnd is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either. If one of Ipv4AddressStart and Ipv4AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 255.
Ipv6AddressStart	Start IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 addressStart is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured.
Ipv6AddressEnd	End IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 addressEnd is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. If one of Ipv6AddressStart and Ipv6AddressEnd is not configured, the other cannot be configured. Number of addresses in the SNAT pool cannot exceed the limit 65535.

LB/IPParameters

This table contains information about IP parameter profile.

XML structure

```
<LB>
  <IPParameters>
    <IPParameter>
      <Name></Name>
      <Description></Description>
      <IPToS></IPToS>
    </IPParameter>
  </IPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	IPParameters
Table type	Multi-instance table
Row name	IPParameter
Restrictions	Only IP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
IPToS	ToS number of the IP packet sent to client.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A

LB/TCPParameters

This table contains information about TCP parameter profile.

XML structure

```
<LB>
```

```

<TCPParameters>
  <TCPParameter>
    <Name></Name>
    <Description></Description>
    <ExceedMSS></ExceedMSS>
    <WindowSize></WindowSize>
    <TimeWaitTime></TimeWaitTime>
    <IdleTimeout></IdleTimeout>
    <MSS></MSS>
  </TCPParameter>
</TCPParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TCPParameters
Table type	Multi-instance table
Row name	TCPParameter
Restrictions	Only TCP parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ExceedMSS	Processing method when segments exceed the maximum segment size of TCP segment.	N/A	Enumeration: 0—Permit (default). 1—Drop.	N/A
WindowSize	Starting value of the receive window size.	N/A	Unsigned integer. Value range: 8192 to 65535. By default, 65535 is configured.	N/A
TimeWaitTi	The time of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
me	TCP time-wait		Value range: 1 to 65535. Unit: second. By default, 3 is configured.	
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.

LB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```

<LB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>
      <Description></Description>
      <RebalancePerRequest></RebalancePerRequest>
      <ServerConnectionReuse></ServerConnectionReuse>
      <CaseInsensitive></CaseInsensitive>
      <HeaderModifyPerRequest></HeaderModifyPerRequest>
      <HeaderMaxParseLength></HeaderMaxParseLength>
      <ContentMaxParseLength></ContentMaxParseLength>
      <SecondaryCookieDelimiters></SecondaryCookieDelimiters>
      <SecondaryCookieStart></SecondaryCookieStart>
      <ExceedLength></ExceedLength>
    </HTTPParameter>
  </HTTPParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPParameters
Table type	Multi-instance table

Column name	Column description	Column type	Data type and restrictions	Remarks
				"\$" "+" "*" "" "(" ")" " " "," "/" can be used for secondary cookies delimiters. And < should be transferred meaning by <; > should be transferred meaning by >; ' should be transferred meaning by '; " should be transferred meaning by ";
SecondaryCookieStart	Starting character of secondary cookies.	N/A	String. Length: 1 to 2 characters. By default, the value is ?.	Delimiter characters are defined to be one of the following: "! " "" "#" " " "<" ">" "?" " "[" \" \"] \" ^ \" \"] can be used for secondary cookies delimiters. And < should be transferred meaning by <; > should be transferred meaning by >; ' should be transferred meaning by '; " should be transferred meaning by ";
ExceedLength	Processing method for HTTP requests or responses that exceed the maximum parse length.	N/A	Enumeration: 0—Keep (default). 1—Drop.	N/A

LB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```

<LB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>

```

```

    <MemorySize></MemorySize>
    <WindowSize></WindowSize>
  </HTTPCompressionParameter>
</HTTPCompressionParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9 By default, 1 is configured.	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: 1—Gzip (default). 2—Deflate.	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. By default, 1024 is configured.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: 0—Disable. 1—Enable(default).	N/A
RequestVersion	Enable compress the HTTP response of	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	version 1.0.			
DeleteAccept Encoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: 0—Disable. 1—Enable(default).	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: 1—1KB. 2—2KB. 4—4KB. 8—8KB(default). 16—16KB. 32—32KB. 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: 1—1KB. 2—2KB. 4—4KB. 8—8KB. 16—16KB(default). 32—32KB.	N/A

LB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```

<LB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <MaskType></MaskType>
      <SourceMask></SourceMask>
    </OneConnectParameter>
  </OneConnectParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	OneConnectParameters

Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number is 1000.	N/A
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
MaskType	Type of source mask	N/A	Enumeration: 0—IPv4 1—IPv6	N/A
SourceMask	Source mask to determine its eligibility for reuse.	N/A	Unsigned integer. IPv4 Value range: 0 to 32. IPv6 Value range: 0 to 128. By default, the value is 0.	N/A

LB/HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```

<LB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>

```



```

<Name></Name>
<ID></ID>
<Type></Type>
<FilterType></FilterType>
<Expression></Expression>
</HTTPCompressionParameterRule>
</HTTPCompressionParameterRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: 0—Permit. 1—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: 0—URL. 1—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

LB/AddressPortStickyGroups

This table contains information about address-port sticky groups.

XML structure

```
<LB>
  <AddressPortStickyGroups>
    <AddressPortStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Ipv4MethodType></Ipv4MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6MethodType></Ipv6MethodType>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <OverrideLimit></OverrideLimit>
    </AddressPortStickyGroup>
  </AddressPortStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	AddressPortStickyGroups
Table type	Multi-instance table
Row name	AddressPortStickyGroup
Restrictions	Only address-port sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 60s .	
Ipv4MethodType	IPv4 sticky method of the address-port sticky group.	N/A	Enumeration: 0—None (default). 1—Source IP stickiness. 2—Source IP port stickiness. 3—Destination IP stickiness. 4—Destination IP port stickiness. 5—Source IP and destination IP stickiness. 6—Source IP port and destination IP port stickiness.	N/A
Ipv4PrefixLength	IPv4 mask for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	The column can only be configured when Ipv4MethodType is not none (0).
Ipv6MethodType	IPv6 sticky method of the address-port sticky group.	N/A	Enumeration: 0—None (default). 1—Source IPv6 stickiness. 2—Source IPv6 port stickiness. 3—Destination IPv6 stickiness. 4—Destination IPv6 port stickiness. 5—Source IPv6 and destination IPv6 stickiness. 6—Source IPv6 port and destination IPv6 port stickiness.	N/A
Ipv6PrefixLength	IPv6 prefix for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	The column can only be configured when Ipv6MethodType is not none (0).
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/RADIUSStickyGroups

This table contains information about RADIUS sticky groups.

XML structure

```
<LB>
  <RADIUSStickyGroups>
    <RADIUSStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <OverrideLimit></OverrideLimit>
    </RADIUSStickyGroup>
  </RADIUSStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSStickyGroups
Table type	Multi-instance table
Row name	RADIUSStickyGroup
Restrictions	Only RADIUS sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second. By default, the value is 60s .	N/A
AttributeCode	Code of attribute	N/A	Unsigned integer. Value range: 1 to 255.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/PayloadStickyGroups

This table contains information about payload sticky groups.

XML structure

```
<LB>
  <PayloadStickyGroups>
    <PayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </PayloadStickyGroup>
  </PayloadStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	PayloadStickyGroups
Table type	Multi-instance table
Row name	PayloadStickyGroup
Restrictions	Only HTTP payload sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the payload	N/A	Enumeration: 0—None (default).	Only when the type is payload stickiness (1),

Column name	Column description	Column type	Data type and restrictions	Remarks
	sticky group.		1—Payload stickiness.	configurations of offset, length, start and end can be configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second. By default, 60s is configured.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/HTTPContentStickyGroups

This table contains information about HTTP content sticky groups.

XML structure

```

<LB>
  <HTTPContentStickyGroups>
    <HTTPContentStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </HTTPContentStickyGroup>
  </HTTPContentStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPContentStickyGroups
Table type	Multi-instance table
Row name	HTTPContentStickyGroup
Restrictions	Only HTTP content sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of HTTP content sticky group.	N/A	Enumeration: 0—None (default). 1—Content stickiness.	Only when the type is content stickiness (1), configurations of offset, length, start and end can be configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second. By default, the value is 60s .	N/A
Offset	Offset to the first byte of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limits for sessions that match sticky entries.		0—Disable(default). 1—Enable.	

LB/HTTPCookieStickyGroups

This table contains information about HTTP cookie sticky groups.

XML structure

```

<LB>
  <HTTPCookieStickyGroups>
    <HTTPCookieStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CookieSecondary></CookieSecondary>
      <CheckAll></CheckAll>
      <OverrideLimit></OverrideLimit>
    </HTTPCookieStickyGroup>
  </HTTPCookieStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCookieStickyGroups
Table type	Multi-instance table
Row name	HTTPCookieStickyGroup
Restrictions	Only HTTP cookie sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second. By default, the value is 86400s.	N/A
Type	Sticky method of HTTP cookie sticky group.	N/A	Enumeration: • 0—None (default). • 1—Cookie insert stickiness. • 2—Cookie rewrite stickiness • 3—Cookie get stickiness	Only when the type is cookie rewrite (3), configurations of offset, length, start and end can be configured.
CookieName	Name of the cookie.	N/A	String. Length: 0 to 63 characters.	When Type is rewrite (3), this column must be configured. Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" " " , . : \ \"'\" ; / [] ^ _ { } SP HT are not supported either.
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	N/A
Length	Length of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is 0.	If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
CookieSecondary	Name of the secondary cookie.	N/A	String. Length: 0 to 63 characters.	Characters 0~31and 127~255 in ASCII are not supported, such as characters of "(" ")" "<" ">" "@" " " , . : \ \"'\" ; / [] ^ _ { }

Column name	Column description	Column type	Data type and restrictions	Remarks
				"[" "?" "=\"" "{" "}" SP HT are not supported either.
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/HTTPHeaderStickyGroups

This table contains information about HTTP header sticky groups.

XML structure

```

<LB>
  <HTTPHeaderStickyGroups>
    <HTTPHeaderStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </HTTPHeaderStickyGroup>
  </HTTPHeaderStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPHeaderStickyGroups
Table type	Multi-instance table
Row name	HTTPHeaderStickyGroup

Column name	Column description	Column type	Data type and restrictions	Remarks
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/SSLStickyGroups

This table contains information about SSL sticky groups.

XML structure

```

<LB>
  <SSLStickyGroups>
    <SSLStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
    </SSLStickyGroup>
  </SSLStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SSLStickyGroups
Table type	Multi-instance table
Row name	SSLStickyGroup
Restrictions	Only SSL sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description group.	Column type	Data type and restrictions	Remarks
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second. By default, the value is 60s.	N/A
Type	Sticky method of SSL sticky group.	N/A	Enumeration: 0—None (default). 1—SSL Session-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/SIPStickyGroups

This table contains information about SIP sticky groups.

XML structure

```

<LB>
  <SIPStickyGroups>
    <SIPStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
    </SIPStickyGroup>
  </SIPStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SIPStickyGroups
Table type	Multi-instance table
Row name	SIPStickyGroup
Restrictions	Only SIP sticky groups can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second. By default, the value is 60s.	N/A
Type	Sticky method of SIP sticky group.	N/A	Enumeration: 0—None (default). 1—SIP Call-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable(default). 1—Enable.	N/A

LB/Policies

This table contains information about policies.

XML structure

```

<LB>
  <Policies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <DefaultClassAction></DefaultClassAction>
    </Policy>
  </Policies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Policies
Table type	Multi-instance table

Row name	Policy
Restrictions	Only policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type for the policy.	N/A	Enumeration: 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS.	When this column is configured, the value of this column cannot be modified.
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
DefaultClassAction	Action for the default class of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/ClassActions

This table contains information about policy rules.

XML structure

```

<LB>
  <ClassActions>
    <ClassAction>
      <Policy></Policy>
      <Class></Class>
      <Action></Action>
      <BeforeClass></BeforeClass>
    </ClassAction>
  </ClassActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClassActions
Table type	Multi-instance table
Row name	ClassAction
Restrictions	Only policy rules can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Name of the action for the class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	When a row is created, the column must be configured.
BeforeClass	Name of the class that the row will be inserted before.	N/A	String, case-insensitive. Length: 0 to 63 characters.	BeforeClass must be an existing class. By default, indicates the row will be inserted at last.

LB/GenericActions

This table contains information about IP, TCP and UDP action.

XML structure

```
<LB>
  <GenericActions>
    <GenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <Fallback></Fallback>
```



```

    </GenericAction>
  </GenericActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	GenericActions
Table type	Multi-instance table
Row name	GenericAction
Restrictions	Only IP, TCP and UDP action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop (default). 2—Forward all. 3—Server farm.	When ForwardType changes from server farm (3) to drop (1) or forward all (2), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select	N/A	Enumeration: 0—None (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	failed.		1—Match next class.	

LB/RADIUSActions

This table contains information about RADIUS action.

XML structure

```

<LB>
  <RADIUSActions>
    <RADIUSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <Fallback></Fallback>
    </RADIUSAction>
  </RADIUSActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSActions
Table type	Multi-instance table
Row name	RADIUSAction
Restrictions	Only RADIUS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop (default). 2—Forward all. 3—Server farm.	When ForwardType changes from server farm (3) to drop (1) or forward all (2), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServerFarm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
StickyGroup	Name of the sticky group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None (default). 1—Match next class.	N/A

LB/LinkGenericActions

This table contains information about Link-generic action.

XML structure

```

<LB>
  <LinkGenericActions>
    <LinkGenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <LinkGroup></LinkGroup >
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <BusyFallback></BusyFallback>
    </LinkGenericAction>
  </LinkGenericActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericActions
Table type	Multi-instance table
Row name	LinkGenericAction
Restrictions	Only Link-generic action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop (default). 2—Forward all. 3—Server farm.	N/A
LinkGroup	Name of the link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes link group (3).
BackupLinkGroup	Name of the backup link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None (default). 1—Match next class.	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: 0—Force (default). 1—Match next class.	N/A

LB/DNSActions

This table contains information about DNS action.

XML structure

```
<LB>
  <DNSActions>
    <DNSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <DNSServerPool></DNSServerPool>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <StickyGroup></StickyGroup>
      <BusyFallback></BusyFallback>
    </DNSAction>
  </DNSActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSActions
Table type	Multi-instance table
Row name	DNSAction
Restrictions	Only DNS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop (default). 2—Forward all. 3—DNS server pool. 4—Skip current DNS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			proxy.	
DNSServerPool	Name of the DNS server pool for the action.	N/A	String, case-insensitive. Length: 1 to 63 characters.	When the column is configured, ForwardType becomes DNS server pool (3).
IPToS	ToS number of IP packet sent to DNS server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when DNS server select failed.	N/A	Enumeration: 0—None (default). 1—Match next class.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the DNSServerPool is not configured.
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: 0—Force (default). 1—Match next class.	N/A

LB/HTTPActions

This table contains information about HTTP action.

XML structure

```

<LB>
  <HTTPActions>
    <HTTPAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <RewriteValue></RewriteValue>
      <ReplaceValue></ReplaceValue>
      <Redirect></Redirect>
      <ReturnCode></ReturnCode>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <FallbackResponseRawFile></FallbackResponseRawFile>
    </HTTPAction>
  
```

```
</HTTPActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActions
Table type	Multi-instance table
Row name	HTTPAction
Restrictions	Only HTTP action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	N/A
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop (default). 3—Server farm. 8—Redirect 9—Response.	When ForwardType changes from server farm (3) to drop (1) or redirect (8) or response (9), ServerFarm and BackupServerFarm become default value.
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes server farm (3).
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when ServerFarm is not configured.
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None (default). 1—Match next class. 2—Response.	N/A
RewriteValue	Content value need to be replaced in response.	N/A	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message. %pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.
Redirect	Redirection URL.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column has two special usages, analyzes host and URL from requests. Only three symbols such as 'p', 'h' and '%' can be put behind '%'. Two '%' are regarded as one '%'. Process can handle, so the number of '%' must be even. They input below, except '%p' and '%h'. '%p' and '%h' only have one occurrence in the messages.
ReturnCode	Status code in the returned redirection packets.	N/A	Enumeration: 301—The requested resource has been permanently deleted. 302—The requested resource has been temporarily deleted (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ZipFileWorkpath	Work path of the zip file for the response.	N/A	String. Length: 1 to 255 characters.	If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured.
ResponseZipFile	Full path and name of the zip file for the response. Example: - flash:/lb/1.html - chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Response (9). The column cannot be configured when ZipFileWorkpath is not configured.
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: - flash:/lb/1.html - chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).

LB/HTTPActionResponseFiles

This table contains information about HTTP action response file.

When this table is configured the ForwardType of http action becomes response(9).

XML structure

```

<LB>
  <HTTPActionResponseFiles>
    <HTTPActionResponseFile>
      <Action></Action>
      <URL></URL>
      <FileName></FileName>
    </HTTPActionResponseFile>
  </HTTPActionResponseFiles>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionResponseFiles
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action response file can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
URL	URL of file for the action response.	Index	String. Length: 1 to 255 characters.	The column must start with /. When the column is configured, ForwardType becomes Resposne (9).
FileName	Full path and name of the file for the action response.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column must start witch device name.

LB/HTTPActionRewriteURLs

This table contains information about HTTP action rewrite URL.

XML structure

```
<LB>
  <HTTPActionRewriteURLs>
    <HTTPActionRewriteURL>
      <LocationURL></LocationURL>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionRewriteURL>
  </HTTPActionRewriteURLs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionRewriteURLs
Table type	Multi-instance table
Row name	HTTPActionURL
Restrictions	Only HTTP action rewrite URL can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationURL	URL of location value for the HTTP request line.	Index	String. Length: 0 to 127 characters.	N/A
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	This column only can be configured when LocationURL is configured. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the valid time of certificate(invalid before this time) %{x509after}: the valid

Column name	Column description	Column type	Data type and restrictions	Remarks
				time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dncn}: common name %{dne}: email %{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: 0—None. 1—URL. 2—Base64	

LB/HTTPActionSSLURLs

This table contains information about HTTP action SSLURL.

XML structure

```

<LB>
  <HTTPActionSSLURLs>
    <HTTPActionSSLURL>
      <Name></Name>

```

```

    <LocationURL></LocationURL>
    <ClearPort></ClearPort>
    <SSLPort></SSLPort>
  </HTTPActionSSLURL>
</HTTPActionSSLURLs>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionSSLURLs
Table type	Multi-instance table
Row name	HTTPActionSSLURL
Restrictions	Only HTTP action SSL URL can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 1 to 63 characters.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	This column can only be configured when LocationURL is configured.
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 443.	This column can only be configured when LocationURL is configured.

LB/HTTPActionHeaders

This table contains information about HTTP action header.

XML structure

```

<LB>
  <HTTPActionHeaders>

```

```
<HTTPActionHeader>
  <Action></Action>
  <Type></Type>
  <Direction></Direction>
  <HeaderName></HeaderName>
  <HeaderValue></HeaderValue>
  <HeaderExpress></HeaderExpress>
  <Replace></Replace>
  <Encode></Encode>
</HTTPActionHeader>
</HTTPActionHeaders>

</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionHeaders
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action header can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: • 0—Header Delete. • 1—Header Insert. • 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: • 0—Request and Response. • 1—Request. • 2—Response.	N/A
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 1 to 63 characters.	HeaderName cannot contain any one of characters following: 0 to 31 and 127 to 255 in the ASCII table, character as "(") " "< " "> " "@ " , " ; " , . : " / " \ " " ^ " _ " ` " ~ " = "

Column name	Column description	Column type	Data type and restrictions	Remarks
				"{" "}" SP HT.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	This column has validity in Header Insert process. You cannot configure this column if the type is not Header Insert. Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address. %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the vaild time of certificate(invaild before this time) %{x509after}: the vaild time of certificate(invaild after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dn-cn}: common name %{dne}: email

Column name	Column description	Column type	Data type and restrictions	Remarks
				%{dno}: company/organization %{dnou}: organization unit %{dnc}: country %{dns}: state/province %{dnl}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2).
Replace	Replaced string that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	This column can only be configured when the type is Header Rewrite (2). Some special applications and constraints as below: %is: source IPv4 address or source IPv6 address. %ps: source port. %id: destination IPv4 address or IPv6 address %pd: destination port. %sis: source IPv4 address or source IPv6 address of server. %sps: source port of server. %sid: destination IPv4 address or IPv6 address of server. %spd: destination port of server. %{x509v}: the version of certificate %{x509issuer}: the issuer of certificate %{x509before}: the valid time of certificate(invalid before this time) %{x509after}: the valid time of certificate(invalid after this time) %{x509hash}: the MD5 hash of certificate %{x509snum}: the serial

Column name	Column description	Column type	Data type and restrictions	Remarks
				number of certificate %{x509sigalgo}: the signature algorithm of certificate %{x509sub}: the subject of certificate %{x509spktype}: the subject public key type of certificate %{x509spk}: the subject public key of certificate %{x509spkRSA}: the number of subject public key bits of certificate %{dn-cn}: common name %{dn-e}: email %{dn-o}: company/organization %{dn-ou}: organization unit %{dn-c}: country %{dn-s}: state/province %{dn-l}: location To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.
Encode	Encode type of URL rewrite.	N/A	Enumeration: 0—None. 1—URL. 2—Base64	Encode

LB/Classes

This table contains information about classes.

XML structure

```

<LB>
  <Classes>
    <Class>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <MatchCondition></MatchCondition>
    </Class>
  </Classes>
</LB>

```

```
</Classes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	Only class can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the class.	N/A	Enumeration: 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS.	When a class is created, the column must be configured. Once created, this column cannot be changed.
Description	Description of the class.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MatchCondition	The rule matched class.	N/A	Enumeration: 0—Match any. 1—Match all (default).	Once created, this column cannot be changed.

LB/GenericMatchRules

This table contains information about generic match rule.

XML structure

```
<LB>
  <GenericMatchRules>
    <GenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
```

```

<SrcIpv4Address></SrcIpv4Address>
<SrcIpv4PrefixLength></SrcIpv4PrefixLength>
<SrcIpv6Address></SrcIpv6Address>
<SrcIpv6PrefixLength></SrcIpv6PrefixLength>
<ReferClass></ReferClass>
<AcNum></AcNum>
<AcName></AcName>
<ISP></ISP>
<User></User>
<UserGroup></UserGroup>
<IdentityDomain></IdentityDomain>
<InterfaceName></InterfaceName>
</GenericMatchRule>
</GenericMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	GenericMatchRules
Table type	Multi-instance table
Row name	GenericMatchRule
Restrictions	Only generic match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—ISP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			6—User. 7—User group. 8—Interface.	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is Class (2).
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AcName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the type is ISP (5).
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no username is specified.	This column can be configured only when the type is user (6).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (7).
IdentityDomain	The domain	N/A	String, case-insensitive..	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
n	name of the user or user group.		Length: 1 to 255 characters. By default, no domain name is specified.	configured only when the type is user or user group (6 or 7). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (8).

LB/LinkGenericMatchRules

This table contains information about link generic match rule.

XML structure

```

<LB>
  <LinkGenericMatchRules>
    <LinkGenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AcNum></AcNum>
      <AcName></AcName>
      <ISP></ISP>
      <AppGroup></AppGroup>
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <DstDomain></DstDomain>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
    </LinkGenericMatchRule>
  </LinkGenericMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericMatchRules
Table type	Multi-instance table
Row name	LinkGenericMatchRule
Restrictions	Only link generic match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—ISP. 6—Application group. 7—Destination IPv4. 8—Destination IPv6. 9—Destination domain. 10—User. 11—User group. 12—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address	This column can be configured only when the type is Source IPv6 (1).

Column name	Column description	Column type	Data type and restrictions	Remarks
			is specified.	
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the type is Class (2).
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
AcName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the type is ISP (5).
AppGroup	Name of the application group.	N/A	String. Length: 1 to 63 characters. By default, no application group name is specified.	This column can be configured only when the type is application group (6).
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is destination IPv4(7).
DstIpv4Prefix Length	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when destination IPv4 address is configured.
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is destination IPv6 (8).
DstIpv6Prefix Length	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when destination IPv6 address is configured.
DstDomain	Match rule of destination domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
				The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (10).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (11).
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (10 or 11). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (12).

LB/DNSMatchRules

This table contains information about DNS match rule.

XML structure

```
<LB>
  <DNSMatchRules>
```



```

<DNSMatchRule>
  <Class></Class>
  <ID></ID>
  <Type></Type>
  <SrcIPv4Address></SrcIPv4Address>
  <SrcIPv4PrefixLength></SrcIPv4PrefixLength>
  <SrcIPv6Address></SrcIPv6Address>
  <SrcIPv6PrefixLength></SrcIPv6PrefixLength>
  <DstIPv4Address></DstIPv4Address>
  <DstIPv4PrefixLength></DstIPv4PrefixLength>
  <DstIPv6Address></DstIPv6Address>
  <DstIPv6PrefixLength></DstIPv6PrefixLength>
  <ReferClass></ReferClass>
  <Ac lNum></Ac lNum>
  <Ac lName></Ac lName>
  <Domain></Domain>
  <User></User>
  <UserGroup></UserGroup>
  <IdentityDomain></IdentityDomain>
  <InterfaceName></InterfaceName>
</DNSMatchRule>
</DNSMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSMatchRules
Table type	Multi-instance table
Row name	DNSMatchRule
Restrictions	Only DNS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Destination IPv4. 3—Destination IPv6. 4—Class. 5—IPv4 ACL. 6—IPv6 ACL. 7—Domain name. 8—User. 9—User group. 10—Interface.	N/A
SrcIpv4Address	Match rule of source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4Prefix Length	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is destination IPv4(2).
DstIpv4Prefix Length	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when destination IPv4 address is configured.
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is destination IPv6 (3).
DstIpv6Prefix Length	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when destination IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the type is Class (4).

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (5) or IPv6 ACL (6).
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AclNum and AclName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (5) or IPv6 ACL (6).
Domain	Domain for the DNS match rule	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). The domain name supports wildcards including question marks (?) and asterisks (*). The following rules apply when you use wildcards: Use a question mark (?) to replace one character, except the dot (.). Multiple question marks can appear in the domain name. Use an asterisk (*) to replace multiple characters, except the dot (.). Multiple asterisks can appear in the domain name. Question marks and asterisks can appear in the domain name at the same time.
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (8).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (9).
IdentityDomain	The domain name of the user or user	N/A	String, case-insensitive.. Length: 1 to 255 characters.	This column can be configured only when the type is user or user group

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.		By default, no domain name is specified.	(8 or 9). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (10).

LB/HTTPMatchRules

This table contains information about HTTP match rule.

XML structure

```

<LB>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <CookieName></CookieName>
      <CookieValue></CookieValue>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <Method></Method>
      <ExtType></ExtType>
      <URL></URL>
      <ContentOffset></ContentOffset>
      <ContentExpression></ContentExpression>
      <AcNum></AcNum>
      <AcName></AcName>
      <ISP></ISP>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
    </HTTPMatchRule>
  </HTTPMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule
Restrictions	Only HTTP match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—Cookie. 4—HTTP Header. 5—Method. 6—URL. 7—Content. 8—IPv4 ACL. 9—IPv6 ACL. 10—ISP. 11—User. 12—User group. 13—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	This column can be configured only when the type is Source IPv4(0).
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	This column can be configured only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, no IPv6 address is specified.	type is Source IPv6(1).
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is Class (2).
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Cookie (3).
CookieValue	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Cookie (3) and the CookieName has been configured.
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is HTTP Header (4).
HeaderValue	Regular expression matched the header range.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is HTTP Header (4) and the HeaderName has been configured.
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	This column can be configured only when the type is Method (5).When the ExtType is Nonuser-defined (0), Method can only be configured one of these methods: GET, CONNECT, DELETE, HEAD, OPTIONS, TRACE, PUT, AND POST.
ExtType	Identification of the type for user-defined.	N/A	Enumeration: 0—Nonuser-defined (default). 1—User-defined.	N/A
URL	Regular expression matched the URL.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is URL (6).
ContentOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000. By default, the value is zero.	This column can be configured only when the type is Content (7).
ContentExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	This column can be configured only when the type is Content (7).

Column name	Column description	Column type	Data type and restrictions	Remarks
AcINum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (8) or IPv6 ACL (9).
AcIName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (8) or IPv6 ACL (9).
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ISP name is specified.	This column can be configured only when the type is ISP (10).
User	Name of the user.	N/A	String, case-sensitive.. Length: 1 to 55 characters. By default, no user name is specified.	This column can be configured only when the type is user (11).
UserGroup	Name of the user group.	N/A	String, case-insensitive.. Length: 1 to 32 characters. By default, no user group name is specified.	This column can be configured only when the type is user group (12).
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive.. Length: 1 to 255 characters. By default, no domain name is specified.	This column can be configured only when the type is user or user group (11 or 12). The name cannot contain question marks (?).
InterfaceName	Name of the interface.	N/A	String, case-insensitive.. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is interface (13).

LB/RADIUSMatchRules

This table contains information about RADIUS match rule.

XML structure

```

<LB>
  <RADIUSMatchRules>
    <RADIUSMatchRule>
      <Class></Class>

```

```

<ID></ID>
<Type></Type>
<SrcIpv4Address></SrcIpv4Address>
<SrcIpv4PrefixLength></SrcIpv4PrefixLength>
<SrcIpv6Address></SrcIpv6Address>
<SrcIpv6PrefixLength></SrcIpv6PrefixLength>
<ReferClass></ReferClass>
<Ac lNum></Ac lNum>
<Ac lName></Ac lName>
<AttributeType></AttributeType>
<AttributeExpression></AttributeExpression>
</RADIUSMatchRule>
</RADIUSMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSMatchRules
Table type	Multi-instance table
Row name	RADIUSMatchRule
Restrictions	Only RADIUS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—RADIUS.	N/A
SrcIpv4Addre	Match rule of	N/A	String.	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
ss	Source IPv4.		Dotted decimal notation. By default, no IPv4 address is specified.	configured only when the type is Source IPv4(0).
Srclpv4Prefix Length	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	This column can be configured only when IPv4 address is configured.
Srclpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	This column can be configured only when the type is Source IPv6 (1).
Srclpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	This column can be configured only when IPv6 address is configured.
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	This column can be configured only when the type is Class (2).
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can only be configured when the type is IPv4 ACL (3) or IPv6 ACL (4).
AcName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AcNum and AcName are mutual exclusive and only one of them can be set in a single message. This column can be configured only when the type is IPv4 ACL (3) or IPv6 ACL (4).
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	This column can be configured only when the type is RADIUS (5).
AttributeExpression	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	This column can be configured only when the type is RADIUS (5).

LB/ISPs

This table contains information about ISP.

XML structure

```
<LB>
  <ISPs>
```

```

<ISP>
  <Name></Name>
  <Description></Description>
</ISP>
</ISPs>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only manual ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	N/A

LB/ISPFile

This table contains information about ISP file.

XML structure

```

<LB>
  <ISPFile>
    <FileName></FileName>
  </ISPFile>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LB/FlowMode

This table contains information about flow mode.

XML structure

```
<LB>
  <FlowMode>
    <ModeType></ModeType>
  </FlowMode>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	FlowMode
Table type	Single-instance table
Row name	N/A
Restrictions	Only flow mode can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Type of flow mode.	N/A	Enumeration: 0—Disable. 1—One failover-group. 2—Share failover-group (default).	N/A

LB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv4ISPAddressGroup
Restrictions	Only manual IPv4 ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation. By default, no IPv4 address is specified.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range:1 to 32.	N/A

LB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```

<LB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only manual IPv6 ISP can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range:1 to 128.	N/A

LB/ProximityParameters

This table contains information about proximity parameter.

XML structure

```

<LB>
  <ProximityParameters>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbeMode></DefaultProbeMode>
    <DefaultProbe></DefaultProbe>
  </ProximityParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ProximityParameters
Table type	Single-instance table
Row name	N/A
Restrictions	Only proximity parameter can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range:0 to 32. By default, the value is 24.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:1 to 128. By default, the value is 96.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range:60 to 3600. By default, the value is 60.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range:0 to 10000000. By default, the value is 0 which indicates the number of proximity entries is unlimited.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: 0—NQA (default). 1—LB.	N/A
DefaultProbe	Default probe method for the	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	proximity.		Length: 1 to 32 characters. By default, no default probe is specified.	

LB/VRFProximityParameters

This table contains information about proximity parameter.

XML structure

```

<LB>
  <VRFProximityParameters>
    <VRFProximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
      <MaxNumber></MaxNumber>
      <DefaultProbeMode></DefaultProbeMode>
      <DefaultProbe></DefaultProbe>
    </VRFProximityParameter>
  </VRFProximityParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityParameters
Table type	Multi-instance table
Row name	VRFProximityParameter
Restrictions	Only proximity parameter can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range:0 to 32. By default, the value is 24.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range:1 to 128. By default, the value is 96.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range:60 to 3600. By default, the value is 60.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range:0 to 255. By default, the value is 100.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range:0 to 10000000. By default, the value is 0 which indicates the number of proximity entries is unlimited.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: 0—NQA (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—LB.	
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters. By default, no default probe is specified.	N/A

LB/ProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```

<LB>
  <ProximityProbeRules>
    <ProximityProbeRule>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </ProximityProbeRule>
  </ProximityProbeRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ProximityProbeRules
Table type	Multi-instance table
Row name	ProximityProbeRule
Restrictions	Only proximity probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule.		0—TCP.	
ProbeMode	Mode of the match probe.	N/A	Enumeration: 0—NQA (default). 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/VRFProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```

<LB>
  <VRFProximityProbeRules>
    <VRFProximityProbeRule>
      <VRF></VRF>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </VRFProximityProbeRule>
  </VRFProximityProbeRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityProbeRules
Table type	Multi-instance table
Row name	VRFProximityProbeRule
Restrictions	Only proximity probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: • 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: • 0—NQA (default). • 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/ALG

This table contains information about ALG.

XML structure

```

<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PtpEnable></PtpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table
Row name	N/A
Restrictions	Only ALG can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol service.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/LimitPolicies

This table contains information about limit policies.

XML structure

```

<LB>
  <LimitPolicies>
    <LimitPolicy>
      <Name></Name>
      <Description></Description>
    </LimitPolicy>
  </LimitPolicies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LimitPolicies
Table type	Multi-instance table
Row name	LimitPolicy
Restrictions	Only limit policy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/LimitRules

This table contains information about limit policy rules.

XML structure

```
<LB>
  <LimitRules>
    <LimitRule>
      <Name></Name>
      <ID></ID>
      <AclVersion></AclVersion>
      <AclNum></AclNum>
      <AclName></AclName>
      <PerDestination></PerDestination>
      <PerSource></PerSource>
      <PerService></PerService>
      <ThresholdHigh></ThresholdHigh>
      <ThresholdLow></ThresholdLow>
    </LimitRule>
  </LimitRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitRules
Table type	Multi-instance table
Row name	LimitRule
Restrictions	Only limit policy rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the limit policy rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AcIVersion	Version of ACL	N/A	Enumeration: 1—IPv4. 2—IPv6.	N/A
AcINum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
AcIName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no ACL name is specified.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
PerDestination	Enable the per-destination connection limit.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
PerSource	Enable the per-source connection limit.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
PerService	Enable the per-service connection limit.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

Column name	Column description	Column type	Data type and restrictions	Remarks
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$. By default, the column is not configured.	ThresholdHigh must be greater or equal than ThresholdLow.

LB/Links

This table contains information about link.

XML structure

```

<LB>
  <Links>
    <Link>
      <Name></Name>
      <Description></Description>
      <RouterType></RouterType>
      <RouterInterface></RouterInterface>
      <RouterIpv4Address></RouterIpv4Address>
      <RouterIpv6Address></RouterIpv6Address>
      <Weight></Weight>
      <Priority></Priority>
      <Cost></Cost>
      <LinkGroup></LinkGroup>
      <Shutdown></Shutdown>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <InRateLimitBandwidth></InRateLimitBandwidth>
      <OutRateLimitBandwidth></OutRateLimitBandwidth>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
    </Link>
  </Links>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Links
Table type	Multi-instance table
Row name	Link
Restrictions	Only link can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RouterType	The type of router.	N/A	Enumeration: 0—Configure. 1—Auto.	N/A
RouterInterface	Name of the router interface.	N/A	String, case-insensitive. Length: 1 to 47 characters. By default, no interface name is specified.	This column can be configured only when the type is Auto (1).
RouterIPv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. This column can be configured only when the type is Configure (0).
RouterIPv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported. This column can be configured only when the type is Configure (0).
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255.	A larger value means a higher weight.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 100.	
Priority	Priority of the link.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240. By default, the value is 0 which indicates that cost factor can be ignore when calculate proximities.	N/A
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no link group is specified.	N/A
Shutdown	Shutdown state for the link.	N/A	Enumeration: 0—Not configured (default). 1—Shutdown. 2—Slow-shutdown.	N/A
ProbeSuccessCriteria	Probe success criteria for the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0 which indicates that probe success criteria is all.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps. By default, the value is 0 which indicates no preset limit.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 0 KB/s which indicates no preset limit.	
InRateLimitBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset inbound limit.	N/A
OutRateLimitBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s. By default, the value is 0 KB/s which indicate no preset outbound limit.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
BandwidthBusyRecoverRatio	Total bound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery	N/A	Unsigned integer. Value range: 1 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
verRatio	ratio.		By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
InheritVPN	Inherit the VPN.	N/A	Enumeration: 0—Disable inherit the VPN. 1—Enable inherit the VPN (default).	N/A

LB/LinkProbes

This table contains information about link probe that only uses NQA template..

XML structure

```

<LB>
  <LinkProbes>
    <LinkProbe>
      <Link></Link>
      <Probe></Probe>
    </LinkProbe>
  </LinkProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkProbes
Table type	Multi-instance table
Row name	LinkProbe
Restrictions	Only Link probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the link.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/LinkGroups

This table contains information about link group.

XML structure

```
<LB>
  <LinkGroups>
    <LinkGroup>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectLinkMinNumber></SelectLinkMinNumber>
      <SelectLinkMaxNumber></SelectLinkMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
```

```

    <ProbeSuccessCriteria></ProbeSuccessCriteria>
    <ProximityEnable></ProximityEnable>
  </LinkGroup>
</LinkGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroups
Table type	Multi-instance table
Row name	LinkGroup
Restrictions	Only link group can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a link to forward packet.	N/A	Enumeration: 0—Round-robin (default). 1—Random. 2—Least-connection. 3—Hash source address. 4—Hash source port. 5—Hash destination address. 6—Bandwidth. 7—Inbound bandwidth. 8—Outbound bandwidth. 9—Max bandwidth. 10—Max inbound	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			bandwidth. 11—Max outbound bandwidth. 12—Strict round-robin.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash source address (3), hash source port (4) and hash destination address (5).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column can only be configured when the Predictor hash source address (3), hash source port (4) and hash destination address (5).
SelectLinkMinNumber	Minimum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	If one of SelectLinkMinNumber and SelectLinkMaxNumber is not configured, the other cannot be configured. The value of SelectLinkMaxNumber must be greater or equal than SelectLinkMinNumber.
SelectLinkMaxNumber	Maximum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured.	If one of SelectLinkMinNumber and SelectLinkMaxNumber is not configured, the other cannot be configured. The value of SelectLinkMaxNumber must be greater or equal than SelectLinkMinNumber.
SlowOnlineEnable	Enable the link group slow online.	N/A	Enumeration: 0—Disable (default). 1—Enable.	If the column is 0, SlowOnlineStandbyTime and SlowOnlineRampUpTime cannot be configured without default value.
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second. By default, the value is 5.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second. By default, the value is 5.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
ActivateLower	The status of main link	N/A	Unsigned integer.	If one of ActivateLower and ActivateUpper is not configured, the

Column name	Column description	Column type	Data type and restrictions	Remarks
	group will be changed from in use to backup when the ratio of the available links in main link group becomes smaller than this value.		Value range: 1 to 99. By default, the column is not configured which indicates if one real server is active, the server farm is active.	other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
ActivateUpper	The status of main server farm will be changed from backup to in use when the ratio of the available links in main link group reaches or over this value.		Unsigned integer. Value range: 1 to 99. By default, the column is not configured.	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be greater or equal than ActivateLower.
SNATPool	SNAT pool for the link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any link fails in a link group.	N/A	Enumeration: 0—Keep (default). 1—Reset. 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that link is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0.	By default, indicates that when real server is available, all results of probes must be success.
ProximityEnable	Enable the proximity.	N/A	Enumeration: 0—disable (default). 1—enable.	N/A

LB/LinkGroupProbes

This table contains information about Link Group Probe that only uses NQA template.

XML structure

```

<LB>
  <LinkGroupProbes>
    <LinkGroupProbe>

```

```

    <LinkGroup></LinkGroup>
    <Probe></Probe>
  </LinkGroupProbe>
</LinkGroupProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupProbes
Table type	Multi-instance table
Row name	LinkGroupProbe
Restrictions	Only link group probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the link group	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Regions

This table contains information about region.

XML structure

```

<LB>
  <Regions>
    <Region>
      <Name></Name>
    </Region>
  </Regions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Regions
Table type	Multi-instance table
Row name	Region
Restrictions	Only region can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/RegionISPs

This table contains information about region ISP.

XML structure

```
<LB>
  <RegionISPs>
    <RegionISP>
      <Region></Region>
      <ISP></ISP>
    </RegionISP>
  </RegionISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RegionISPs
Table type	Multi-instance table
Row name	RegionISP
Restrictions	Only Region ISP can be configured by this table.

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Region	Name of the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ISP	ISP for the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/TopolgyRegions

This table contains information about topolgy region.

XML structure

```

<LB>
  <TopolgyRegions>
    <TopolgyRegion>
      <RegionName></RegionName>
      <Ipv4Address></Ipv4Address>
      <Ipv4MaskLength></Ipv4MaskLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Weight></Weight>
    </TopolgyRegion>
  </TopolgyRegions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegions
Table type	Multi-instance table
Row name	TopolgyRegion
Restrictions	Only TopolgyRegion can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopologyRegionIPv4s

This table contains information about an IPv4 topology region.

XML structure

```

<LB>
  <TopologyRegionIPv4s>
    <TopologyRegionIPv4>
      <RegionName></RegionName>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Weight></Weight>
    </TopologyRegionIPv4>
  </TopologyRegionIPv4s>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegionIPv4s
Table type	Multi-instance table
Row name	TopolgyRegionIPv4
Restrictions	Only TopolgyRegionIPv4 can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topolgy region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Addresses	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
IPv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Weight	Weight of the topolgy region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopolgyRegionIPv6s

This table contains information about an IPv6 topolgy region.

XML structure

```
<LB>
  <TopolgyRegionIPv6s>
    <TopolgyRegionIPv6>
      <RegionName></RegionName>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
      <Weight></Weight>
```

```

        </TopolgyRegionIPv6>
    </TopolgyRegionIPv6s>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopolgyRegion IPv6s
Table type	Multi-instance table
Row name	TopolgyRegion IPv6
Restrictions	Only TopolgyRegion IPv6 can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topolgy region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv6Addresses	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses, and link local addresses are not supported.
IPv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.
Weight	Weight of the topolgy region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/DNSListeners

This table contains information about a DNS listener.

XML structure

```

<LB>
  <DNSListeners>
    <DNSListener>
      <Name></Name>
    </DNSListener>
  </DNSListeners>
</LB>

```

```

    <VRF></VRF>
    <Ipv4Address></Ipv4Address>
    <Ipv6Address></Ipv6Address>
    <PortNumber></PortNumber>
    <IPv6PortNumber></IPv6PortNumber>
    <ServiceEnable></ServiceEnable>
    <Fallback></Fallback>
  </DNSListener>
</DNSListeners>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSListeners
Table type	Multi-instance table
Row name	DNSListener
Restrictions	Only DNS Listener can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 53.	
IPv6PortNumber	Number of IPv6 port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A
ServiceEnable	Enable the DNS listener.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: 0—No-response. 1—Reject(default). 2—Dns proxy.	N/A

LB/DNSProxies

This table contains information about DNS proxies.

XML structure

```

<LB>
  <DNSProxies>
    <DNSProxy>
      <Name></Name>
      <Type></Type>
      <VRF></VRF>
      <PortNumber></PortNumber>
      <ServiceEnable></ServiceEnable>
      <DefaultDNSServerPool></DefaultDNSServerPool>
      <Policy></Policy>
      <BusyProtectEnable></BusyProtectEnable>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <StickyGroup></StickyGroup>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </DNSProxy>
  </DNSProxies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSProxies
Table type	Multi-instance table
Row name	DNSProxy
Restrictions	Only DNS proxy can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Type	Type of the DNS proxy	N/A	Enumeration: 0—UDP	When a DNS proxy is created, the column must be specified. Once created, this column cannot be changed.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A
ServiceEnable	Enable the DNS proxy.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
DefaultDNS ServerPool	Name of the default DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BusyProtect Enable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Enable.	
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the DefaultDNSServerPool is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses, and addresses such as 0.x.x.x with mask length 32 are not supported.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link-local addresses are not supported.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	The column cannot be configured if no IPv6 address is configured.

LB/DNSServers

This table contains information about DNS server.

XML structure

```

<LB>
  <DNSServers>
    <DNSServer>
      <Name></Name>
      <Description></Description>
      <AutoAllocAddress></AutoAllocAddress>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DNSServerPool></DNSServerPool>
    </DNSServer>
  </DNSServers>
</LB>

```

```

    <Link></Link>
    <Weight></Weight>
    <Priority></Priority>
    <ProbeSuccessCriteria></ProbeSuccessCriteria>
  </DNSServer>
</DNSServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServers
Table type	Multi-instance table
Row name	DNSServer
Restrictions	Only DNS server can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
AutoAllocAddress	Automatic allocable address for DNS server. Include IPv4 address and IPv6 address.	N/A	enumeration: 0—Disable. 1—Enable.	This column cannot be configured with Ipv4Address or Ipv6Address at the same time.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either. This column cannot be configured with AutoAllocAddress at the same time.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback address, multicast address, link local address and 0::0 address are not supported. This column cannot be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
				with AutoAllocAddress at the same time.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 0.	N/A
DNSServerPool	Name of the DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters. By default, no DNS server pool is specified.	N/A
Link	Name of the Link.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the DNS server.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.
Priority	Priority of the DNS server.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A aarger value means a higher priority.
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0 which indicates that probe success criteria is all.	N/A

LB/DNSServerProbes

This table contains information about DNS server probe that only uses NQA template.

XML structure

```

<LB>
  <DNSServerProbes>
    <DNSServerProbe>
      <DNSServer></DNSServer>
      <Probe></Probe>
    </DNSServerProbe>
  </DNSServerProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerProbes
Table type	Multi-instance table
Row name	DNSServerProbe
Restrictions	Only DNS server probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPools

This table contains information about DNS server pool.

XML structure

```
<LB>
  <DNSServerPools>
    <DNSServerPool>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
    </DNSServerPool>
  </DNSServerPools>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPools
Table type	Multi-instance table
Row name	DNSServerPool
Restrictions	Only DNS server pool can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server pool.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a DNS server to a DNS request.	N/A	Enumeration: 0—Round-robin (default). 1—Random. 2—Bandwidth. 3—Inbound bandwidth. 4—Outbound bandwidth. 5—Max bandwidth. 6—Max inbound bandwidth. 7—Max outbound bandwidth. 8—Hash source address. 9—Hash source port. 10—Hash destination address.	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column can only be configured when the Predictor is hash source address (3), hash source port (4) and hash destination address (5).
HashIpv6PrefixLength	Length of IPv6 address mask for hash algorithm.	N/A	Unsigned integer.	The column can only be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
efixLength	address prefix for hash algorithm.		Value range: 0 to 128. By default, the value is 128. Unsigned integer.	when the Predictor hash source address (3), hash source port (4) and hash destination address (5).
SelectServerMinNumber	Minimum number of the active DNS server in the DNS server pool.	N/A	Value range: 1 to 1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
SelectServerMaxNumber	Maximum number of the active DNS server in the DNS server pool.	N/A	Unsigned integer. Value range: 1 to 1000. By default, the column is not configured.	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
ProbeSuccessCriteria	The condition that DNS server is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0.	By default, indicates that when DNS server is available, all results of probes must be success.

LB/DNSServerPoolProbes

This table contains information about DNS server pool probe that only uses NQA template.

XML structure

```

<LB>
  <DNSServerPoolProbes>
    <DNSServerPoolProbe>
      <DNSServerPool></DNSServerPool>
      <Probe></Probe>
    </DNSServerPoolProbe>
  </DNSServerPoolProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolProbes
Table type	Multi-instance table

Row name	DNSServerPoolProbe
Restrictions	Only DNS server pool probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServerPool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Log

This table contains information about LB logs.

XML structure

```

<LB>
  <Log>
    <BaseEnable></BaseEnable>
    <NatEnable></NatEnable>
    <BandwidthBusyEnable></BandwidthBusyEnable>
  </Log>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: 0—Disable. 1—Enable (default).	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```
<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces
Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

LB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```
<LB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
  </VServerArpInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```
<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Type></Type>
      <Frequency></Frequency>
      <Timeout></Timeout>
    </ProbeTemplate>
  </ProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplate
Table type	Multi-instance table
Row name	N/A
Restrictions	Only probe template can be gotten by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Type of the probe template.	N/A	Enumeration: 0—ICMP.	When a probe template is created, the column must be specified.
Frequency	Frequency of the probe template.	N/A	Unsigned integer. Value range: 5 to 604800. Unit: second. By default, the value is 300s.	N/A
Timeout	Timeout time of the probe template.	N/A	Unsigned integer. Value range: 1 to 60. Unit: second. By default, the value is 3s.	N/A

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LB

LB/HTTPVirtualServers

This table contains information about HTTP and fast HTTP virtual servers.

XML structure

```
<LB>
  <HTTPVirtualServers>
    <HTTPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <HTTPParameter></HTTPParameter>
      <OneConnectParameter></OneConnectParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <SSLServerPolicy></SSLServerPolicy>
      <SSLClientPolicy></SSLClientPolicy>
      <RedirectRelocation></RedirectRelocation>
      <RedirectReturnCode></RedirectReturnCode>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <State></State>
      <ServerFarmInUse></ServerFarmInUse>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <ConnSynEnable></ConnSynEnable>
      <StickySynEnable></StickySynEnable>
      <HTTPCompressionParameter></HTTPCompressionParameter>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
    </HTTPVirtualServer>
  </HTTPVirtualServers>
</LB>
```

```

</HTTPVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPVirtualServers
Table type	Multi-instance table
Row name	HTTPVirtualServer
Restrictions	Only HTTP and FASTHTTP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—HTTP. 1—FASTHTTP	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
TCPParameter	Parameter whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
OneConnectParameter	Parameter whose type is OneConnect for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit : KB/s.	N/A
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
RedirectRelocation	Redirection URL.	N/A	String. Length: 0 to 63 characters.	The null string indicates the label is not configured.
RedirectRet	Redirection	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
urnCode	condition code.		301—The requested resource has been permanently moved. 302—The requested resource has been temporarily moved.	
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit : KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit : KB/s.	N/A
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available. 2—Disable.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics. 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization	N/A	Enumeration: 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	n.		1—Enable.	
HTTPCompressionParameter	Parameter whose type is HTTP compression for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be configured only when the Type is HTTP (0).
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/GenericVirtualServers

This table contains information about IP, TCP and UDP virtual servers.

XML structure

```

<LB>
  <GenericVirtualServers>
    <GenericVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <PortNumber></PortNumber>
      <PortNumberList></PortNumberList>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <DefaultLinkGroup></DefaultLinkGroup>
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <SSLServerPolicy></SSLServerPolicy>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>

```

```

<UDPPerPacket></UDPPerPacket>
<ServiceEnable></ServiceEnable>
<RateLimitInBandwidth></RateLimitInBandwidth>
<RateLimitOutBandwidth></RateLimitOutBandwidth>
<State></State>
<ServerFarmInUse></ServerFarmInUse>
<LinkGroupInUse></LinkGroupInUse>
<BusyProtectEnable></BusyProtectEnable>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
<ConnSynEnable></ConnSynEnable>
<StickySynEnable></StickySynEnable>
<LimitPolicy></LimitPolicy>
<RouteAdvertisementEnable></RouteAdvertisementEnable>
</GenericVirtualServer>
</GenericVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	GenericVirtualServers
Table type	Multi-instance table
Row name	GenericVirtualServer
Restrictions	Only IP, TCP , UDP and LINK-IP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—IP. 1—TCP. 2—UDP. 3—LINK-IP.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31	The null string indicates a public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
PortNumber	Number of the port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
DefaultLink Group	Name of the default link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupLink Group	Name of the backup link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 63 characters	
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
TCPParameter	Parameter whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
SSLServerPolicy	Name of the SSL server policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available. 2—Disable.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: 0—Default sever farm.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Backup server farm. 2—No server farm.	
LinkGroupIn Use	Name of the in use link group.	N/A	Enumeration: 0—Default link group. 1—Backup link group. 2—No link group.	N/A
BusyProtect Enable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics. 1—Using interface bandwidth.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```

<LB>
  <RADIUSVirtualServers>
    <RADIUSVirtualServer>
      <Name></Name>
      <Type></Type>
    </RADIUSVirtualServer>
  </RADIUSVirtualServers>
</LB>

```

```

<Description></Description>
<VRF></VRF>
<Ipv4Address></Ipv4Address>
<Ipv6Address></Ipv6Address>
<PortNumberList></PortNumberList>
<DefaultServerFarm></DefaultServerFarm>
<BackupServerFarm></BackupServerFarm>
<StickyGroup></StickyGroup>
<Policy></Policy>
<IPParameter></IPParameter>
<MaxConnectionLimit></MaxConnectionLimit>
<RateLimitConnection></RateLimitConnection>
<RateLimitBandwidth></RateLimitBandwidth>
<UDPPerPacket></UDPPerPacket>
<ServiceEnable></ServiceEnable>
<RateLimitInBandwidth></RateLimitInBandwidth>
<RateLimitOutBandwidth></RateLimitOutBandwidth>
<State></State>
<ServerFarmInUse></ServerFarmInUse>
<BusyProtectEnable></BusyProtectEnable>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
<ConnSynEnable></ConnSynEnable>
<StickySynEnable></StickySynEnable>
<LimitPolicy></LimitPolicy>
<RouteAdvertisementEnable></RouteAdvertisementEnable>
</RADIUSVirtualServer>
</RADIUSVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSVirtualServers
Table type	Multi-instance table
Row name	RADIUSVirtualServer
Restrictions	Only RADIUS virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—LINK-IP.	N/A
Description	Description for the virtual server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber List	List of port numbers	N/A	Number string. It is a comma-separated list of ports. An item can be an individual port or a port range. Use a hyphen (-) to separate the start and end port of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter whose type is	N/A	String, case-insensitive.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	IP for the virtual server.		Length: 0 to 63 characters	
MaxConnect ionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitCo nnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBa ndwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
UDPPerPac ket	Enable UDP per-packet load balancing.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ServiceEna ble	Enable the service of the virtual server.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RateLimitIn Bandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
RateLimitOu tBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available. 2—Disable.	N/A
ServerFarmI nUse	Name of the server farm in use.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A
BusyProtect Enable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RSBandwidt hProtectOrig in	Origin of real server bandwidth statistics that are used for	N/A	Enumeration: 0—Using LB bandwidth statistics. 1—Using	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bandwidth protection.		interface bandwidth.	
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/SIPVirtualServers

This table contains information about SIPUDP and SIPTCP virtual servers.

XML structure

```

<LB>
  <SIPVirtualServers>
    <SIPVirtualServer>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>

```

```

<State></State>
<ServerFarmInUse></ServerFarmInUse>
<BusyProtectEnable></BusyProtectEnable>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
<ConnSynEnable></ConnSynEnable>
<StickySynEnable></StickySynEnable>
<LimitPolicy></LimitPolicy>
<RouteAdvertisementEnable></RouteAdvertisementEnable>
</SIPVirtualServer>
</SIPVirtualServers >
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SIPVirtualServers
Table type	Multi-instance table
Row name	SIPVirtualServer
Restrictions	Only SIP UDP and SIP TCP virtual servers can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: 0—SIP-UDP. 1—SIP-TCP.	N/A
Description	Description for the virtual server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
VRF	VRF name.	N/A	String, Length: 1 to 31 characters.	The null string indicates a public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port.		Value range: 0 to 65535.	
DefaultServerFarm	Name of the default server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters	The null string indicates the label is not configured.
MaxConnectionLimit	Maximum connection limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
UDPPerPacket	Enable UDP per-packet load balancing.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: KB/s	
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available.	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A
BusyProtectEnable	Enable bandwidth busy protection.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: 0—Using LB bandwidth statistics. 1—Using interface bandwidth statistics.	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/VirtualServerSummaries

This table contains summary information about virtual server.

XML structure

```
<LB>
  <VirtualServerSummaries>
    <VirtualServerSummary>
```

```

<Name></Name>
<Type></Type>
<VRF></VRF>
<Ipv4Address></Ipv4Address>
<Ipv4PrefixLength></Ipv4PrefixLength>
<Ipv6Address></Ipv6Address>
<Ipv6PrefixLength></Ipv6PrefixLength>
<PortNumber></PortNumber>
<ServiceEnable></ServiceEnable>
<State></State>
<BusyProtectEnable></BusyProtectEnables>
<RSBandwidthProtectOrigin></RSBandwidthProtectOrigins>
</VirtualServerSummary>
</VirtualServerSummaries>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerSummaries
Table type	Multi-instance table
Row name	VirtualServerSummary
Restrictions	Only summaries of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: • 0—IP. • 1—TCP. • 2—UDP. • 3—HTTP. • 4—FASTHTTP. • 5—LINK-IP. • 8—SIP-UDP. • 9—SIP-TCP.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
State	State of the virtual server.	N/A	Enumeration: 0—Unavailable. 1—Available.	N/A
BusyProtectEnable	State of the busy protect.	N/A	Enumeration: 0—Unavailable. 1—Available.	N/A
RSBandwidthProtectOrigin	Source of the virtual server bandwidth	N/A	Enumeration: 0—LB. 0—interface.	N/A

LB/VirtualServerStats

This table contains stat information about virtual server.

XML structure

```

<LB>
  <VirtualServerStats>
    <VirtualServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>

```

```

    <MaxConnectionPerSec></MaxConnectionPerSec>
    <ClientSidePKTsIn></ClientSidePKTsIn>
    <ClientSidePKTSOut></ClientSidePKTSOut>
    <DroppedPackets></DroppedPackets>
    <ClientSideBytesIn></ClientSideBytesIn>
    <ClientSideBytesOut></ClientSideBytesOut>
    <Bandwidth></Bandwidth>
    <MaxBandwidth></MaxBandwidth>
    <ReceivedRequests></ReceivedRequests>
    <DroppedRequests></DroppedRequests>
    <SentResponses></SentResponses>
    <DroppedResponses></DroppedResponses>
    <InBandwidth></InBandwidth>
    <OutBandwidth></OutBandwidth>
    <InMaxBandwidth></InMaxBandwidth>
    <OutMaxBandwidth></OutMaxBandwidth>
  </VirtualServerStat>
</VirtualServerStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VirtualServerStats
Table type	Multi-instance table
Row name	VirtualServerStat
Restrictions	Only stats of virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalConnections	Total connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxConnections	Max connections that the virtual server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the virtual server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
ClientSidePKTsIn	Number of packets that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ClientSidePKTsOut	Number of packets that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ClientSideBytesIn	Number of bytes that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
ClientSideBytesOut	Number of bytes that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the virtual	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.		$2^{32}-1$. Unit: KB/s.	
MaxBandwidth	Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
ReceivedRequests	Number of requests that the virtual server received from client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of requests that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of responses that the virtual server sent to client.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of responses that the virtual server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
InBandwidth	Inbound Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the virtual server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

LB/RealServers

This table contains information about real server.

XML structure

```
<LB>
  <RealServers>
    <RealServer>
      <Name></Name>
      <Description></Description>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
      <Priority></Priority>
      <ServerFarm></ServerFarm>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <InBandwidthBusyRatio></InBandwidthBusyRatio>
      <OutBandwidthBusyRatio></OutBandwidthBusyRatio>
      <BandwidthBusyRatio></BandwidthBusyRatio>
      <InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
      <OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
      <BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
      <Cost></Cost>
      <MaxBandwidth></MaxBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
      <VRF></VRF>
      <InheritVPN></InheritVPN>
    </RealServer>
  </RealServers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServers
Table type	Multi-instance table
Row name	RealServer
Restrictions	Only Real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the real server.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Weight	Weight of the real server.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the real server.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
ServerFarm	Name of the server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Shutdown	Shutdown state for the real server.	N/A	Enumeration: 0—Not configured. 1—Shutdown. 2—Slow-shutdown.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the real server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy.	N/A
RateLimitInBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to 232-1. Unit: KB/s.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InBandwidthBusyRecoveryRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
OutBandwidthBusyRecoveryRatio	Outbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
BandwidthBusyRecoveryRatio	Total bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			be greater than or equal to the recovery rate.	
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
VRF	VRF name	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
InheritVPN	Inherit the VPN of virtual server	N/A	Enumeration: 0—Disable inherit the VPN (default). 1—Enable inherit the VPN.	N/A

LB/RealServerProbes

This table contains information about Real Server Probe that only uses NQA template.

XML structure

```

<LB>
  <RealServerProbes>
    <RealServerProbe>
      <RealServer></RealServer>
      <Probe></Probe>
      <State></State>
    </RealServerProbe>
  </RealServerProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RealServerProbes
Table type	Multi-instance table
Row name	RealServerProbe
Restrictions	Only Real server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RealServer	Name of the real server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the real server.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
State	State of the real server probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

LB/RealServerStats

This table contains stat information about real server.

XML structure

```
<LB>
  <RealServerStats>
    <RealServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
```

```

<ServerSidePKTsOut></ServerSidePKTsOut>
<DroppedPackets></DroppedPackets>
<ServerSideBytesIn></ServerSideBytesIn>
<ServerSideBytesOut></ServerSideBytesOut>
<Bandwidth></Bandwidth>
<MaxBandwidth></MaxBandwidth>
<ReceivedRequests></ReceivedRequests>
<DroppedRequests></DroppedRequests>
<SentResponses></SentResponses>
<DroppedResponses></DroppedResponses>
<InBandwidth></InBandwidth>
<OutBandwidth></OutBandwidth>
<InMaxBandwidth></InMaxBandwidth>
<OutMaxBandwidth></OutMaxBandwidth>
</RealServerStat>
</RealServerStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RealServerStats
Table type	Multi-instance table
Row name	RealServerStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the real server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the real	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server received.		$2^{64}-1$.	
ActiveConnections	Active connections that the real server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxConnections	Max connections that the real server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the real server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the real server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the real server received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSidePKTsOut	Number of packets that the real server sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the real server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSideBytesIn	Number of bytes that the real server received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
ServerSideBytesOut	Number of bytes that the real server sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: KB/s.	
ReceivedRequests	Number of requests that the real server received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of requests that the real server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of responses that the real server sent to device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of responses that the real server dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
InBandwidth	Inbound Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

LB/ServerFarms

This table contains information about server farm.

XML structure

```

<LB>
  <ServerFarms>
    <ServerFarm>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>

```

```

<HashIpv4PrefixLength></HashIpv4PrefixLength>
<HashIpv6PrefixLength></HashIpv6PrefixLength>
<SelectServerMinNumber></SelectServerMinNumber>
<SelectServerMaxNumber></SelectServerMaxNumber>
<SlowOnlineEnable></SlowOnlineEnable>
<SlowOnlineStandbyTime></SlowOnlineStandbyTime>
<SlowOnlineRampUpTime></SlowOnlineRampUpTime>
<Transparent></Transparent>
<ActivateLower></ActivateLower>
<ActivateUpper></ActivateUpper>
<SNATPool></SNATPool>
<FailAction></FailAction>
<ProbeSuccessCriteria></ProbeSuccessCriteria>
<TotalRealServer></TotalRealServer>
<ActiveRealServer></ActiveRealServer>
<State></State>
<ProximityEnable></ProximityEnable>
</ServerFarm>
</ServerFarms>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ServerFarms
Table type	Multi-instance table
Row name	ServerFarm
Restrictions	Only server farm can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the server farm.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a real server to serve a client	N/A	Enumeration: 0—Round-robin. 1—Random. 2—Least-conne	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	request.		tion. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 7—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Strict round-robin.	
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectServerMaxNumber	Maximum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SlowOnlineEnable	Enable the server farm slow online.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
SlowOnlineStandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnlineRampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
Transparent	Disable NAT for the server	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	farm.		0—Disable. 1—Enable	
ActivateLower	The status of main server farm will be changed from in use to backup when the ratio of the available real servers in main server farm becomes smaller than this value.	N/A	Unsigned integer. Value range: 1 to 99.	N/A
ActivateUpper	The status of main server farm will be changed from backup to in use when the ratio of the available real servers in main server farm reaches or over this value.		Unsigned integer. Value range: 1 to 99.	N/A
SNATPool	SNAT pool for the server farm.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any real server fails in a server farm.	N/A	Enumeration: 0—Keep. 1—Reset. 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that real server is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
TotalRealServer	Total number of real servers in the server farm.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ActiveRealServer	Active number of real servers in the server farm.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
State	State of the server farm.	N/A	Enumeration: 0—Unavailable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Available.	
ProximityEnable	Enable the proximity.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```

<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
    </ServerFarmProbe>
  </ServerFarmProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmProbes
Table type	Multi-instance table
Row name	ServerFarmProbe
Restrictions	Only server farm probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerFarm	Name of the server farm.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the server farm.	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

LB/ServerFarmStats

This table contains stat information about server farm.

XML structure

```
<LB>
  <ServerFarmStats>
    <ServerFarmStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <ServerSidePKTsIn></ServerSidePKTsIn>
      <ServerSidePKTsOut></ServerSidePKTsOut>
      <DroppedPackets></DroppedPackets>
      <ServerSideBytesIn></ServerSideBytesIn>
      <ServerSideBytesOut></ServerSideBytesOut>
      <Bandwidth></Bandwidth>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <SentResponses></SentResponses>
      <DroppedResponses></DroppedResponses>
    </ServerFarmStat>
  </ServerFarmStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RealServerStats
Table type	Multi-instance table
Row name	RealServerStat
Restrictions	Only stats of real server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server farm.		case-insensitive. Length: 0 to 63 characters.	
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the server farm received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections that the server farm received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the server farm received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
ServerSidePKTsIn	Number of packets that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSidePKTsOut	Number of packets that the server farm sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSideBytesIn	Number of bytes that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
ServerSideBytesOut	Number of bytes that the server farm sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceivedRequests	Number of requests that the server farm received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of requests that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of responses that the server farm sent to device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of responses that the server farm dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/SNAT Pools

This table contains information about SNAT pool.

XML structure

```

<LB>
  <SNATPools>
    <SNATPool>
      <Name></Name>
      <Description></Description>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </SNATPool>
  </SNATPools>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SNATPools
Table type	Multi-instance table
Row name	SNATPool
Restrictions	Only SNAT pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the SNAT Pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the SNAT Pool.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Ipv4Address Start	Start IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4Address End	End IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address Start	Start IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6Address End	End IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.

LB/IPParameters

This table contains information about IP parameter profile.

XML structure

```
<LB>
  <IPParameters>
    <IPParameter>
      <Name></Name>
      <Description></Description>
      <IPToS></IPToS>
    </IPParameter>
  </IPParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	IPParameters
Table type	Multi-instance table

Row name	IPParameter
Restrictions	Only IP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
IPToS	ToS number of the IP packet sent to client.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

LB/TCPParameters

This table contains information about TCP parameter profile.

XML structure

```

<LB>
  <TCPParameters>
    <TCPParameter>
      <Name></Name>
      <Description></Description>
      <ExceedMSS></ExceedMSS>
      <WindowSize></WindowSize>
      <TimeWaitTime></TimeWaitTime>
      <IdleTimeout></IdleTimeout>
      <MSS></MSS>
    </TCPParameter>
  </TCPParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TCPParameters
Table type	Multi-instance table

Row name	TCPParameter
Restrictions	Only TCP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
ExceedMSS	Processing method when segments exceed the maximum segment size of TCP segment.	N/A	Enumeration: 0—Permit. 1—Drop.	N/A
WindowSize	Starting value of the receive window size.	N/A	Unsigned integer. Value range: 8192 to 65535.	N/A
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
IdleTimeout	Timeout time of idle connections.	N/A	Unsigned integer. Value range: 10 to 86400. Unit: second.	The 0 indicates the label is not configured.
MSS	Maximum segment size of TCP segments.	N/A	Unsigned integer. Value range: 128 to 1460.	The 0 indicates the label is not configured.

LB/HTTPParameters

This table contains information about HTTP parameter profile.

XML structure

```

<LB>
  <HTTPParameters>
    <HTTPParameter>
      <Name></Name>

```

```

<Description></Description>
<RebalancePerRequest></RebalancePerRequest>
<ServerConnectionReuse></ServerConnectionReuse>
<CaseInsensitive></CaseInsensitive>
<HeaderModifyPerRequest></HeaderModifyPerRequest>
<HeaderMaxParseLength></HeaderMaxParseLength>
<ContentMaxParseLength></ContentMaxParseLength>
<SecondaryCookieDelimiters></SecondaryCookieDelimiters>
<SecondaryCookieStart></SecondaryCookieStart>
<ExceedLength></ExceedLength>
</HTTPParameter>
</HTTPParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPParameters
Table type	Multi-instance table
Row name	HTTPParameter
Restrictions	Only HTTP parameter profile information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
CaseInsensitive	Disable case-sensitivity matching for	N/A	Enumeration: 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	HTTP.		1—Enable.	
HeaderModifyPerRequest	Enable modify the HTTP header of every HTTP request or response.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
SecondaryCookieDelimiters	The delimiters used to separate secondary cookies.	N/A	String. Length: 1 to 4 characters.	Delimiter characters are defined to be one of the following: !"#\$%&'()*+,-./:;<>?@[]_`{ }~" can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by >, ' should be transferred meaning by ', " should be transferred meaning by ".
SecondaryCookieStart	Starting character of secondary cookies.	N/A	String. Length: 1 to 2 characters.	Delimiter characters are defined to be one of the following: !"#\$%&'()*+,-./:;<>?@[]_`{ }~" can be used for secondary cookies delimiters. And < should be transferred meaning by <, > should be transferred meaning by >, ' should be transferred meaning by ', " should be transferred meaning by ".
ExceedLength	Processing method for HTTP requests or responses that exceed the	N/A	Enumeration: 0—Keep. 1—Drop.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	maximum parse length.			

LB/HTTPCompressionParameters

This table contains information about HTTP compression parameter profile.

XML structure

```

<LB>
  <HTTPCompressionParameters>
    <HTTPCompressionParameter>
      <Name></Name>
      <Level></Level>
      <Description></Description>
      <PreferMethod></PreferMethod>
      <ContentLengthThreshold></ContentLengthThreshold>
      <InsertVary></InsertVary>
      <RequestVersion></RequestVersion>
      <DeleteAcceptEncoding></DeleteAcceptEncoding>
      <MemorySize></MemorySize>
      <WindowSize></WindowSize>
    </HTTPCompressionParameter>
  </HTTPCompressionParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameters
Table type	Multi-instance table
Row name	HTTPCompressionParameter
Restrictions	Only HTTP compression parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parameter profile.		Length: 1 to 63 characters.	
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Level	Level of compress packet.	N/A	Unsigned integer: Value range: 1 to 9	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: 1—Gzip. 2—Deflate	N/A
ContentLengthThreshold	Minimum number of bytes to compress the response packet.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
InsertVary	Enable insert vary header in HTTP response packet.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: 1—1KB. 2—2KB. 4—4KB. 8—8KB. 16—16KB. 32—32KB. 64—64KB.	N/A
WindowSize	Window size of compression.	N/A	Enumeration: 1—1KB. 2—2KB. 4—4KB. 8—8KB. 16—16KB. 32—32KB.	N/A

LB/OneConnectParameters

This table contains information about the OneConnect parameter profile.

XML structure

```
<LB>
  <OneConnectParameters>
    <OneConnectParameter>
      <Name></Name>
      <Description></Description>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <Masktype></MaskType>
      <SourceMask></SourceMask>
    </OneConnectParameter>
  </OneConnectParameters>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	OneConnectParameters
Table type	Multi-instance table
Row name	OneConnectParameter
Restrictions	Only OneConnect parameter profile can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	N/A
MaxReuse	Maximum reuse number	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the number	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 1000.	
IdleTime	Idle connection expiration time	N/A	Unsigned integer. Value range: 1 to 4294967295. By default, the time length is 86400.	N/A
MaskType	Type of source mask	N/A	Enumeration: 0—IPv4 1—IPv6	N/A
SourceMask	Source mask to determine its eligibility for reuse.	N/A	Unsigned integer. IPv4 value range: 0 to 32. IPv6 value range: 0 to 128. By default, the value is 0.	N/A

LB/ HTTPCompressionParameterRules

This table contains information about HTTP compression parameter rule.

XML structure

```

<LB>
  <HTTPCompressionParameterRules>
    <HTTPCompressionParameterRule>
      <Name></Name>
      <ID></ID>
      <Type></Type>
      <FilterType></FilterType>
      <Expression></Expression>
    </HTTPCompressionParameterRule>
  </HTTPCompressionParameterRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCompressionParameterRules
Table type	Multi-instance table
Row name	HTTPCompressionParameterRule
Restrictions	Only HTTP compression parameter rule can be configured by this table.

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range:1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: 0—Permit. 1—Deny.	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: 0—URL. 1—Content.	N/A.
Expression	Regular expression matched the filter type.	N/A	String. Length: 0 to 255 characters.	N/A

LB/ParameterSummaries

This table contains summary information about parameter profile.

XML structure

```

<LB>
  <ParameterSummaries>
    <ParameterSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
    </ParameterSummary>
  </ParameterSummaries>
</LB>

```

Table description

Item	Description
Feature name	LB

Table name	ParameterSummaries
Table type	Multi-instance table
Row name	ParameterSummary
Restrictions	Only parameter profile summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the parameter profile.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of parameter profile.	N/A	Enumeration: 0—IP. 1—TCP. 2—HTTP. 3—HTTP Compression Parameter.	N/A
Description	Description of the parameter profile.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/AddressPortStickyGroups

This table contains information about address-port sticky groups.

XML structure

```

<LB>
  <AddressPortStickyGroups>
    <AddressPortStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Ipv4MethodType></Ipv4MethodType>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6MethodType></Ipv6MethodType>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <OverrideLimit></OverrideLimit>
    </AddressPortStickyGroup>
  </AddressPortStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	AddressPortStickyGroups
Table type	Multi-instance table
Row name	AddressPortStickyGroup
Restrictions	Only address-port sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second	N/A
Ipv4MethodType	IPv4 sticky method of the address-port sticky group.	N/A	Enumeration: 0—None. 1—Source IP stickiness. 2—Source IP port stickiness. 3—Destination IP stickiness. 4—Destination IP port stickiness. 5—Source IP and destination IP stickiness. 6—Source IP port and destination IP port stickiness.	N/A
Ipv4PrefixLength	IPv4 mask for IPv4 sticky method.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6MethodType	IPv6 sticky method of the address-port sticky group.	N/A	Enumeration: 0—None. 1—Source IPv6 stickiness. 2—Source IPv6 port stickiness. 3—Destination IPv6	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			stickiness. 4—Destination IPv6 port stickiness. 5—Source IPv6 and destination IPv6 stickiness. 6—Source IPv6 port and destination IPv6 port stickiness.	
Ipv6PrefixLength	IPv6 prefix for IPv6 sticky method.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/RADIUSStickyGroups

This table contains information about RADIUS sticky groups.

XML structure

```

<LB>
  <RADIUSStickyGroups>
    <RADIUSStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <AttributeCode></AttributeCode>
      <OverrideLimit></OverrideLimit>
    </RADIUSStickyGroup>
  </RADIUSStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSStickyGroups
Table type	Multi-instance table
Row name	RADIUSStickyGroup
Restrictions	Only RADIUS sticky groups can be configured by this table.

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second.	N/A
AttributeCode	code of attribute	N/A	Unsigned integer. Value range: 1 to 255.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/PayloadStickyGroups

This table contains information about payload sticky groups.

XML structure

```

<LB>
  <PayloadStickyGroups>
    <PayloadStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </PayloadStickyGroup>
  </PayloadStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	PayloadStickyGroups
Table type	Multi-instance table
Row name	PayloadStickyGroup
Restrictions	Only HTTP payload sticky groups can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the payload sticky group.	N/A	Enumeration: 0—None. 1—Payload stickiness.	N/A
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second.	N/A
Offset	Offset to the first byte of the payload.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the payload stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/HTTPContentStickyGroups

This table contains information about HTTP content sticky groups.

XML structure

```
<LB>
  <HTTPContentStickyGroups>
    <HTTPContentStickyGroup>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Timeout></Timeout>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </HTTPContentStickyGroup>
  </HTTPContentStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPContentStickyGroups
Table type	Multi-instance table
Row name	HTTPContentStickyGroup
Restrictions	Only HTTP content sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Sticky method of the HTTP content sticky	N/A	Enumeration: • 0—None.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group.		1—Content stickiness.	
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second	N/A
Offset	Offset to the first byte of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP content stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/HTTPCookieStickyGroups

This table contains information about HTTP cookie sticky groups.

XML structure

```

<LB>
  <HTTPCookieStickyGroups>
    <HTTPCookieStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <CookieName></CookieName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <CookieSecondary></CookieSecondary>
      <CheckAll></CheckAll>
      <OverrideLimit></OverrideLimit>
    </HTTPCookieStickyGroup>
  </HTTPCookieStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPCookieStickyGroups
Table type	Multi-instance table
Row name	HTTPCookieStickyGroup
Restrictions	Only HTTP cookie sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 0 to 31536000. Unit: second	N/A
Type	Sticky method of the HTTP cookie sticky group.	N/A	Enumeration: 0—None. 1—Cookie insert stickiness. 2—Cookie rewrite stickiness 3—Cookie get stickiness	N/A
CookieName	Name of the cookie.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Offset	Offset to the first byte of the HTTP cookie.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP cookie	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP cookie stickiness	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP cookie stickiness.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
CookieSecondary	Name of the secondary cookie.	N/A	String. Length: 0 to 63 characters.	N/A
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/HTTPHeaderStickyGroups

This table contains information about HTTP header sticky groups.

XML structure

```

<LB>
  <HTTPHeaderStickyGroups>
    <HTTPHeaderStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <HeaderName></HeaderName>
      <Offset></Offset>
      <Length></Length>
      <Start></Start>
      <End></End>
      <OverrideLimit></OverrideLimit>
    </HTTPHeaderStickyGroup>
  </HTTPHeaderStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPHeaderStickyGroups
Table type	Multi-instance table
Row name	HTTPHeaderStickyGroup

Restrictions	Only HTTP header sticky groups information can be gotten by this table.
--------------	---

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second	N/A
Type	Sticky method of the HTTP header sticky group.	N/A	Enumeration: 0—None. 1—URL stickiness. 2—Host stickiness 3—Method stickiness 4—Version stickiness 5—Name stickiness	N/A
HeaderName	Header name.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
Offset	Offset to the first byte of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Length	Length of the HTTP header value.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
Start	Beginning pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
End	Ending pattern for the HTTP header value.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/SSLStickyGroups

This table contains information about SSL sticky groups.

XML structure

```
<LB>
  <SSLStickyGroups>
    <SSLStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
    </SSLStickyGroup>
  </SSLStickyGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	SSLStickyGroups
Table type	Multi-instance table
Row name	SSLStickyGroup
Restrictions	Only SSL sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. Unit: second	N/A
Type	Sticky method of the SSL sticky group.	N/A	Enumeration: 0—None. 1—SSL Session-ID	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			stickiness.	
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/SIPStickyGroups

This table contains information about SIP sticky groups.

XML structure

```

<LB>
  <SIPStickyGroups>
    <SIPStickyGroup>
      <Name></Name>
      <Description></Description>
      <Timeout></Timeout>
      <Type></Type>
      <OverrideLimit></OverrideLimit>
    </SIPStickyGroup>
  </SIPStickyGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	SIPStickyGroups
Table type	Multi-instance table
Row name	SIPStickyGroup
Restrictions	Only SIP sticky groups information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description	N/A	String.	The null string indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
	information for the sticky group.		Length: 1 to 127 characters.	the label is not configured.
Timeout	Timeout time of the sticky group.	N/A	Unsigned integer. Value range: 10 to 604800. unit: second	N/A
Type	Sticky method of the SIP sticky group.	N/A	Enumeration: 0—None. 1—SIP Call-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/StickyGroupSummaries

This table contains summary information about sticky group.

XML structure

```

<LB>
  <StickyGroupSummaries>
    <StickyGroupSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
    </StickyGroupSummary>
  </StickyGroupSummaries>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	StickyGroupSummaries
Table type	Multi-instance table
Row name	StickyGroupSummary
Restrictions	Only sticky group summary information can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the sticky group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Stickiness method of sticky group.	N/A	Enumeration: 1—Address-Port. 2—Payload. 3—HTTP-Content 4—HTTP-Cookie 5—HTTP-Header 6—SSL 8—SIP	N/A
Description	Description information for the sticky group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/Policies

This table contains information about policies.

XML structure

```

<LB>
  <Policies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <DefaultClassAction></DefaultClassAction>
    </Policy>
  </Policies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	Only policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the policy.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type for the policy.	N/A	Enumeration: 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS.	N/A
Description	Description of the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
DefaultClassAction	Action for the default class of the policy.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/ClassActions

This table contains information about policy rules.

XML structure

```

<LB>
  <ClassActions>
    <ClassAction>
      <Policy></Policy>
      <Class></Class>
      <Action></Action>
      <BeforeClass></BeforeClass>
    </ClassAction>
  </ClassActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ClassActions
Table type	Multi-instance table
Row name	ClassAction
Restrictions	Only policy rules can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	Name of the policy.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Action	Name of the action for the class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BeforeClass	Name of the class that the row will be inserted before.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

LB/GenericActions

This table contains information about IP, TCP and UDP action.

XML structure

```
<LB>
  <GenericActions>
    <GenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <ServerFarmInUse></ServerFarmInUse>
      <Fallback></Fallback>
    </GenericAction>
  </GenericActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	GenericActions
Table type	Multi-instance table
Row name	GenericAction

Restrictions	Only IP, TCP and UDP action can be gotten by this table.
--------------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—Server farm.	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmIn Use	Name of the in use sever farm for the action.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None. 1—Match next class.	N/A

LB/RADIUSActions

This table contains information about RADIUS action.

XML structure

```

<LB>
  <RADIUSActions>
    <RADIUSAction>

```

```

<Name></Name>
<Description></Description>
<ForwardType></ForwardType>
<ServerFarm></ServerFarm>
<BackupServerFarm></BackupServerFarm>
<StickyGroup></StickyGroup>
<IPToS></IPToS>
<ServerFarmInUse></ServerFarmInUse>
<Fallback></Fallback>
</RADIUSAction>
</RADIUSActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RADIUSActions
Table type	Multi-instance table
Row name	RADIUSAction
Restrictions	Only RADIUS action can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—Server farm.	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServerFarm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the action.			
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmIn Use	Name of the in use sever farm for the action.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None. 1—Match next class.	N/A

LB/LinkGenericActions

This table contains information about Link-generic action.

XML structure

```

<LB>
  <LinkGenericActions>
    <LinkGenericAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <LinkGroup></LinkGroup >
      <BackupLinkGroup></BackupLinkGroup>
      <StickyGroup></StickyGroup>
      <IPToS></IPToS>
      <LinkGroupInUse></LinkGroupInUse>
      <Fallback></Fallback>
      <BusyFallback></BusyFallback>
    </LinkGenericAction>
  </LinkGenericActions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericActions
Table type	Multi-instance table
Row name	LinkGenericAction
Restrictions	Only Link-generic action can be configured by this

	table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—Server farm.	N/A
LinkGroup	Name of the link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	When the column is configured, ForwardType becomes link group (3).
BackupLinkGroup	Name of the backup link group for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The column cannot be configured when LinkGroup is not configured.
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
LinkGroupInUse	Name of the in use link group for the action.	N/A	Enumeration: 0—Default link group. 1—Backup link group. 2—No link group.	N/A
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None. 1—Match next class.	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: 0—None. 1—Match next class.	N/A

LB/DNSActions

This table contains information about DNS action.

XML structure

```
<LB>
  <DNSActions>
    <DNSAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <DNSServerPool></DNSServerPool>
      <IPToS></IPToS>
      <Fallback></Fallback>
      <StickyGroup></StickyGroup>
      <BusyFallback></BusyFallback>
    </DNSAction>
  </DNSActions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSActions
Table type	Multi-instance table
Row name	DNSAction
Restrictions	Only DNS action can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop. 2—Forward all. 3—DNS server pool. 4—Skip current DNS proxy.	N/A
DNSServerPool	Name of the DNS server pool for the	N/A	String, case-insensitive. Length: 1 to 63 characters.	When the column is configured, ForwardType becomes DNS server pool

Column name	Column description	Column type	Data type and restrictions	Remarks
	action.			(3).
IPToS	ToS number of IP packet sent to server.	N/A	Unsigned integer. Value range: 0 to 255. By default, no IPToS is specified.	N/A
Fallback	Fallback action when DNS server select failed.	N/A	Enumeration: 0—None. 1—Match next class.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: 0—None. 1—Match next class.	N/A

LB/HTTPActions

This table contains information about action of HTTP type.

XML structure

```

<LB>
  <HTTPActions>
    <HTTPAction>
      <Name></Name>
      <Description></Description>
      <ForwardType></ForwardType>
      <ServerFarm></ServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <SSLClientPolicy></SSLClientPolicy>
      <IPToS></IPToS>
      <ServerFarmInUse></ServerFarmInUse>
      <Fallback></Fallback>
      <RewriteValue></RewriteValue>
      <ReplaceValue></ReplaceValue>
      <Redirect></Redirect>
      <ReturnCode></ReturnCode>
      <ZipFileWorkpath></ZipFileWorkpath>
      <ResponseZipFile></ResponseZipFile>
      <FallbackResponseRawFile></FallbackResponseRawFile>
    </HTTPAction>
  </HTTPActions>
</LB>

```


Table description

Item	Description
Feature name	LB
Table name	HTTPActions
Table type	Multi-instance table
Row name	HTTPAction
Restrictions	Only action of HTTP type can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the action.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
ForwardType	Forward mode of the action.	N/A	Enumeration: 1—Drop. 3—Server farm. 8—Redirect 9—Response	N/A
ServerFarm	Name of the sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
BackupServer Farm	Name of the backup sever farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
StickyGroup	Name of the sticky group farm for the action.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
SSLClientPolicy	Name of the SSL client policy.	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates the label is not configured.
IPToS	ToS number of IP packet for the action sent to server.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ServerFarmIn Use	Name of the in use sever farm for the action.	N/A	Enumeration: 0—Default sever farm. 1—Backup server farm. 2—No server farm.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when real server select failed.	N/A	Enumeration: 0—None. 1—Match next class. 2—Response.	N/A
RewriteValue	Content value need to be replaced in response.	N/A	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured together.
ReplaceValue	New content value after replaced in response.	N/A	String. Length: 1 to 127 characters.	Some special applications and constraints as below: %is: insert source IPv4 address or source IPv6 address into header of the message. %ps: insert source port into header of the message. %id: insert destination IPv4 address or IPv6 address into header of the message. %pd: insert destination port into header of the message. To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.
Redirect	Redirection URL.	N/A	String. Length: 0 to 255 characters.	A null string indicates the label is not configured.
ReturnCode	Status code in the returned redirection packets.	N/A	Enumeration: 301—The requested resource has been permanently deleted. 302—The requested resource has been temporarily deleted.	N/A
ZipFileWorkpath	Work path of zip file for the response	N/A	String. Length: 1 to 255 characters.	If the column is not '/', it must start with /, and cannot end with /. The null string indicates the label is not configured.
ResponseZipFile	Full path and name of the zip file for the response. Example: flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when ForwardType is Response (9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (9).

Column name	Column description	Column type	Data type and restrictions	Remarks
	chassis3#slot1#flash:/lb/1.html			The column cannot be configured when ZipFileWorkpath is not configured.
FallbackResponseRawFile	Full path and name of the raw file for the fallback action response. Example: - flash:/lb/1.html - chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).

LB/HTTPActionResponseFiles

This table contains information about HTTP action response file.

XML structure

```

<LB>
  <HTTPActionResponseFiles>
    <HTTPActionResponseFile>
      <Action></Action>
      <URL></URL>
      <FileName></FileName>
    </HTTPActionResponseFile>
  </HTTPActionResponseFiles>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionResponseFiles
Table type	Multi-instance table
Row name	HTTPActionResponseFile
Restrictions	Only HTTP action response file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
URL	URL of file for the action response.	Index	String. Length: 1 to 255 characters.	The column must start with /. When the column is configured, ForwardType becomes Resposne (9).
FileName	Full path and name of the file for the action response. Example: - flash:/lb/1.html - chassis3#slot1#flash:/lb/1.html	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column must start witch device name.

LB/HTTPActionRewriteURLs

This table contains information about HTTP action rewrite URL.

XML structure

```

<LB>
  <HTTPActionRewriteURLs>
    <HTTPActionRewriteURL>
      <LocationURL></LocationURL>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionRewriteURL>
  </HTTPActionRewriteURLs>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionRewriteURLs
Table type	Multi-instance table
Row name	HTTPActionURL

Restrictions	Only HTTP action rewrite URL can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocationURL	URL of location value for the HTTP request line.	Index	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Replace	Replaced string that method of URL rewrite process.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Encode	Encode type of URL rewrite.	N/A	Enumeration: 0—None. 1—URL. 2—Base64	

LB/HTTPActionSSLURLs

This table contains information about HTTP action SSLURL.

XML structure

```

<LB>
  <HTTPActionSSLURLs>
    <HTTPActionSSLURL>
      <Name></Name>
      <LocationURL></LocationURL>
      <ClearPort></ClearPort>
      <SSLPort></SSLPort>
    </HTTPActionSSLURL>
  </HTTPActionSSLURLs>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPActionSSLURLs
Table type	Multi-instance table

Row name	HTTPActionSSLURL
Restrictions	Only HTTP action SSL URL can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
LocationURL	URL of location value for the HTTP header.	Index	String. Length: 0 to 63 characters.	N/A
ClearPort	HTTP port of Location for rewriting redirection message.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SSLPort	SSL port of the LB device.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

LB/HTTPActionHeaders

This table contains information about HTTP action header.

XML structure

```

<LB>
  <HTTPActionHeaders>
    <HTTPActionHeader>
      <Action></Action>
      <Type></Type>
      <Direction></Direction>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <HeaderExpress></HeaderExpress>
      <Replace></Replace>
      <Encode></Encode>
    </HTTPActionHeader>
  </HTTPActionHeaders>
</LB>

```

Table description

Item	Description
Feature name	LB

Table name	HTTPActionHeaders
Table type	Multi-instance table
Row name	HTTPActionHeader
Restrictions	Only HTTP action header can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the header process.	Index	Enumeration: 0—Header Delete. 1—Header Insert. 2—Header Rewrite.	N/A
Direction	Process direction.	Index	Enumeration: 0—Request and Response. 1—Request. 2—Response.	N/A
HeaderName	Name of the header.	Index	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
HeaderValue	Header value that method of Header Insert process.	N/A	String. Length: 0 to 255 characters.	The null string indicates the label is not configured.
HeaderExpress	Header value that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Replace	Replaced string that method of Header Rewrite process.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Encode	Encode type of URL rewrite.	N/A	Enumeration: 0—None. 1—URL. 2—Base64	Encode

LB/ActionSummaries

This table contains information about action summary.

XML structure

```
<LB>
  <ActionSummaries>
    <ActionSummary>
      <Name></Name>
      <Type></Type>
      <Description></Description>
    </ActionSummary>
  </ActionSummaries>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	Only action summary can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the action.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the action.	N/A	Enumeration: 0—Generic. 1—HTTP.	N/A
Description	Description of the action.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/Classes

This table contains information about classes.

XML structure

```
<LB>
  <Classes>
    <Class>
      <Name></Name>
      <Type></Type>
    </Class>
  </Classes>
</LB>
```



```

    <Description></Description>
    <MatchCondition></MatchCondition>
  </Class>
</Classes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	Only class can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Type	Type of the class.	N/A	Enumeration: 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS.	N/A
Description	Description of the class.	N/A	String. Length: 0 to 127 characters.	N/A
MatchCondition	The rule matched class.	N/A	Enumeration: 0—Match any. 1—Match all.	N/A

LB/GenericMatchRules

This table contains information about generic match rule.

XML structure

```

<LB>
  <GenericMatchRules>
    <GenericMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
    </GenericMatchRule>
  </GenericMatchRules>
</LB>

```

```

    <SrcIpv4Address></SrcIpv4Address>
    <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
    <SrcIpv6Address></SrcIpv6Address>
    <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
    <ReferClass></ReferClass>
    <Ac lNum></Ac lNum>
    <Ac lName></Ac lName>
    <ISP></ISP>
    <User></User>
    <UserGroup></UserGroup>
    <IdentityDomain></IdentityDomain>
    <InterfaceName></InterfaceName>
    <MatchedTimes></MatchedTimes>
  </GenericMatchRule>
</GenericMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	GenericMatchRules
Table type	Multi-instance table
Row name	GenericMatchRule
Restrictions	Only generic match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—ISP. 6—User. 7—User group.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			8—Interface.	
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AcName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
MatchedTimes	Number of times the rule was matched.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/LinkGenericMatchRules

This table contains information about link generic match rule.

XML structure

```

<LB>
  <LinkGenericMatchRules>
    <LinkGenericMatchRule>
      <Class></Class>

```

```

<ID></ID>
<Type></Type>
<SrcIpv4Address></SrcIpv4Address>
<SrcIpv4PrefixLength></SrcIpv4PrefixLength>
<SrcIpv6Address></SrcIpv6Address>
<SrcIpv6PrefixLength></SrcIpv6PrefixLength>
<ReferClass></ReferClass>
<Ac lNum></Ac lNum>
<Ac lName></Ac lName>
<ISP></ISP>
<AppGroup></AppGroup>
<DstIpv4Address></DstIpv4Address>
<DstIpv4PrefixLength></DstIpv4PrefixLength>
<DstIpv6Address></DstIpv6Address>
<DstIpv6PrefixLength></DstIpv6PrefixLength>
<DstDomain></DstDomain>
<User></User>
<UserGroup></UserGroup>
<IdentityDomain></IdentityDomain>
<InterfaceName></InterfaceName>
<MatchedTimes></MatchedTimes>
</LinkGenericMatchRule>
</LinkGenericMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGenericMatchRules
Table type	Multi-instance table
Row name	LinkGenericMatchRule
Restrictions	Only link generic match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—ISP. 6—Application group. 7—Destination IPv4. 8—Destination IPv6. 9—Destination domain. 10—User. 11—User group. 12—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4Prefix Length	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
AppGroup	Name of the application group.	N/A	String. Length: 1 to 63 characters.	The null string indicates the label is not configured.
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
DstIpv4Prefix Length	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
DstIpv6Prefix Length	Prefix length of the destination	N/A	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 address.			
DstDomain	Match rule of destination domain	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
MatchedTimes	Number of times the rule was matched.	N/A	Unsigned integer. Value range: 0 to 2 ⁶⁴ -1.	N/A

LB/DNSMatchRules

This table contains information about DNS match rule.

XML structure

```

<LB>
  <DNSMatchRules>
    <DNSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <DstIpv4Address></DstIpv4Address>
      <DstIpv4PrefixLength></DstIpv4PrefixLength>
      <DstIpv6Address></DstIpv6Address>
      <DstIpv6PrefixLength></DstIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AcNum></AcNum>
      <AcName></AcName>
      <Domain></Domain>
    </DNSMatchRule>
  </DNSMatchRules>
</LB>

```

```

    <User></User>
    <UserGroup></UserGroup>
    <IdentityDomain></IdentityDomain>
    <InterfaceName></InterfaceName>
    <MatchedTimes></MatchedTimes>
  </DNSMatchRule>
</DNSMatchRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSMatchRules
Table type	Multi-instance table
Row name	DNSMatchRule
Restrictions	Only DNS match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Destination IPv4. 3—Destination IPv6. 4—Class. 5—IPv4 ACL. 6—IPv6 ACL. 7—Domain name. 8—User. 9—User group. 10—Interface.	N/A
SrcIpv4Address	Match rule of source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
DstIpv4Prefix Length	Mask length of the destination IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DstIpv6Address	Match rule of destination IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
DstIpv6Prefix Length	Prefix length of the destination IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AcName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Domain	Domain for the DNS match rule	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
MatchedTimes	Number of times the rule was matched.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/HTTPMatchRules

This table contains information about HTTP match rule.

XML structure

```
<LB>
  <HTTPMatchRules>
    <HTTPMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <CookieName></CookieName>
      <CookieValue></CookieValue>
      <HeaderName></HeaderName>
      <HeaderValue></HeaderValue>
      <Method></Method>
      <ExtType></ExtType>
      <URL></URL>
      <ContentOffset></ContentOffset>
      <ContentExpression></ContentExpression>
      <AcNum></AcNum>
      <AcName></AcName>
      <ISP></ISP>
      <User></User>
      <UserGroup></UserGroup>
      <IdentityDomain></IdentityDomain>
      <InterfaceName></InterfaceName>
      <MatchedTimes></MatchedTimes>
    </HTTPMatchRule>
  </HTTPMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPMatchRules
Table type	Multi-instance table
Row name	HTTPMatchRule
Restrictions	Only HTTP match rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the match rule.	N/A	Enumeration: • 0—Source IPv4. • 1—Source IPv6. • 2—Class. • 3—Cookie. • 4—HTTP Header. • 5—Method. • 6—URL. • 7—Content. • 8—IPv4 ACL. • 9—IPv6 ACL. • 10—ISP. • 11—User. • 12—User group. • 13—Interface.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6PrefixLength	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
CookieName	Cookie name of the http message.	N/A	String. Length: 0 to 63 characters.	The null string indicates the label is not configured.
CookieValue	Regular expression matched the cookie range.	N/A	String. Length: 0 to 255 characters.	N/A
HeaderName	Header name of the HTTP message.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
HeaderValue	Regular	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	expression matched the header range.		Length: 0 to 255 characters.	
Method	Name of the http request method.	N/A	String. Length: 0 to 63 characters.	N/A
ExtType	Identification of the type for user-defined.	N/A	Enumeration: 0—Nonuser-defined. 1—User-defined.	N/A
URL	Regular expression matched the URL.	N/A	String. Length: 0 to 255 characters.	N/A
ContentOffset	Absolute offset of the HTTP content.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
ContentExpression	Regular expression matched the content.	N/A	String. Length: 0 to 255 characters.	N/A
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
ISP	Name of the ISP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
User	Name of the user.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
UserGroup	Name of the user group.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
IdentityDomain	The domain name of the user or user group.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.
InterfaceName	Name of the interface.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
MatchedTimes	Number of times the rule was matched.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/RADIUSMatchRules

This table contains information about RADIUS match rule.

XML structure

```
<LB>
  <RADIUSMatchRules>
    <RADIUSMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
      <AttributeType></AttributeType>
      <AttributeExpression></AttributeExpression>
      <MatchedTimes></MatchedTimes>
    </RADIUSMatchRule>
  </RADIUSMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RADIUSMatchRules
Table type	Multi-instance table
Row name	RADIUSMatchRule
Restrictions	Only RADIUS match rule can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Class	Name of the class.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the match rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the match rule.	N/A	Enumeration: 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—RADIUS.	N/A
SrcIpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
SrcIpv4Prefix Length	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
SrcIpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
SrcIpv6Prefix Length	Prefix length of the source IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
ReferClass	Name of the referenced class.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
AclNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AclName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
AttributeType	Type of attribute	N/A	Unsigned integer. Value range: 1 to 255. By default, no AttributeType is specified.	N/A
AttributeExpression	Regular expression matched the attribute.	N/A	String. Length: 1 to 255 characters.	N/A
MatchedTimes	Number of times the rule was matched.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/ISPs

This table contains information about ISP.

XML structure

```

<LB>
  <ISPs>
    <ISP>
      <Name></Name>

```

```

    <Description></Description>
    <Origin></Origin>
  </ISP>
</ISPs>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPs
Table type	Multi-instance table
Row name	ISP
Restrictions	Only ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the ISP.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Origin	Origin of the ISP.	N/A	Enumeration: 1—Import. 2—Manual. 3—Import and manual.	N/A

LB/ISPFile

This table contains information about ISP file.

XML structure

```

<LB>
  <ISPFile>
    <FileName></FileName>
  </ISPFile>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

LB/FlowMode

This table contains information about flow mode.

XML structure

```
<LB>
  <FlowMode>
    <ModeType></ModeType>
  </FlowMode>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	FlowMode
Table type	Single-instance table
Row name	N/A
Restrictions	Only flow mode can be configured by this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Type of flow mode.	N/A	Enumeration: 0—Disable. 1—One failover-group. 2—Share failover-group	N/A

LB/Ipv4ISPAddressGroups

This table contains information about IPv4 ISP address groups.

XML structure

```
<LB>
  <Ipv4ISPAddressGroups>
    <Ipv4ISPAddressGroup>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv4ISPAddressGroup
Restrictions	Only IPv4 ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Ipv4Address	IPv4 address.	Index	String, Dotted decimal notation.	The value must be equal to the summation of the address and the mask. Example:1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length	Index	Unsigned integer. Value range: 1 to 32.	N/A
Origin	Origin of IPv4 address.	N/A	Enumeration: 1—Import. 2—Manual. 3—Import and manual.	N/A

LB/Ipv6ISPAddressGroups

This table contains information about IPv6 ISP address groups.

XML structure

```

<LB>
  <Ipv6ISPAddressGroups>
    <Ipv6ISPAddressGroup>
      <Name></Name>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Origin></Origin>
    </Ipv6ISPAddressGroup>
  </Ipv6ISPAddressGroups>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ISPAddressGroups
Table type	Multi-instance table
Row name	Ipv6ISPAddressGroup
Restrictions	Only IPv6 ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	The value must be equal to the summation of the address and the prefix. Example:195::/64.
Ipv6PrefixLength	IPv6 prefix length	Index	Unsigned integer. Value range: 1 to 128.	N/A
Origin	Origin of IPv6 address.	N/A	Enumeration: • 1—Import. • 2—Manual. • 3—Import and manual.	N/A

LB/ProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
  <ProximityParameters>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbeMode></DefaultProbeMode>
    <DefaultProbe></DefaultProbe>
  </ProximityParameters>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	ProximityParameters
Table type	Single-instance table
Row name	N/A
Restrictions	Only proximity parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: 0—NQA. 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/VRFProximityParameters

This table contains information about proximity parameter.

XML structure

```
<LB>
```

```

<VRFProximityParameters>
  <VRFProximityParameter>
    <VRF></VRF>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <Timeout></Timeout>
    <RTTWeight></RTTWeight>
    <TTLWeight></TTLWeight>
    <InBandwidthWeight></InBandwidthWeight>
    <OutBandwidthWeight></OutBandwidthWeight>
    <CostWeight></CostWeight>
    <MaxNumber></MaxNumber>
    <DefaultProbeMode></DefaultProbeMode>
    <DefaultProbe></DefaultProbe>
  </VRFProximityParameter>
</VRFProximityParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityParameters
Table type	Multi-instance table
Row name	VRFProximityParameter
Restrictions	Only proximity parameter can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means nature mask.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 1 to 128.	N/A
Timeout	The life time of proximity.	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
RTTWeight	The weight of RTT.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TTLWeight	The weight of TTL.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InBandwidthWeight	The weight of inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
OutBandwidthWeight	The weight of outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
MaxNumber	Proximity entries upper limit number.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbeMode	Default probe mode for the proximity.	N/A	Enumeration: 0—NQA. 1—LB.	N/A
DefaultProbe	Default probe method for the proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/ProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```

<LB>
  <ProximityProbeRules>
    <ProximityProbeRule>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </ProximityProbeRule>
  </ProximityProbeRules>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ProximityProbeRules
Table type	Multi-instance table
Row name	ProximityProbeRule
Restrictions	Only proximity probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: 0—NQA. 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/VRFProximityProbeRules

This table contains information about probe of the proximity.

XML structure

```
<LB>
  <VRFProximityProbeRules>
    <VRFProximityProbeRule>
      <VRF></VRF>
      <ID></ID>
      <Type></Type>
      <ProbeMode></ProbeMode>
      <Probe></Probe>
    </VRFProximityProbeRule>
  </VRFProximityProbeRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	VRFProximityProbeRules
Table type	Multi-instance table
Row name	VRFProximityProbeRule
Restrictions	Only proximity probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
ID	ID of the probe rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Type	Type of the rule.	N/A	Enumeration: 0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: 0—NQA. 1—LB.	N/A
Probe	Name of the match probe.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/Ipv4ProximityTables

This table contains information about ipv4 proximity item.

XML structure

```
<LB>
  <Ipv4ProximityTables>
    <Ipv4ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Lifetime></Lifetime>
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
      <TimesUsed></TimesUsed>
    </Ipv4ProximityTable>
  </Ipv4ProximityTables>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ProximityTables
Table type	Multi-instance table
Row name	Ipv4ProximityTable
Restrictions	Only IPv4 proximity items can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Lifetime	Lifetime of proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkType	Type of the best link.	N/A	Enumeration: • 0—None. • 1—Real server. • 2—Link.	N/A
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TimesUsed	Number of times the proximity entry was used.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/Ipv6ProximityTables

This table contains information about ipv6 proximity item.

XML structure

```

<LB>
  <Ipv6ProximityTables>
    <Ipv6ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Lifetime></Lifetime>
      <BestLinkType></BestLinkType>
      <BestRealServer></BestRealServer>
      <BestLink></BestLink>
      <TimesUsed></TimesUsed>
    </Ipv6ProximityTable>
  </Ipv6ProximityTables>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ProximityTables
Table type	Multi-instance table
Row name	Ipv6ProximityTable
Restrictions	Only IPv6 proximity items can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A
Lifetime	Lifetime of proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLinkType	Type of the best link.	N/A	Enumeration: 0—None. 1—Real server. 2—Link.	N/A
BestRealServer	The best real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TimesUsed	Number of times the proximity entry was used.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/Ipv4ProximityNodes

This table contains information about the real servers of ipv4 proximity item.

XML structure

```
<LB>
  <Ipv4ProximityNodes>
    <Ipv4ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Priority></Priority>
      <LinkType></LinkType>
      <RealServer></RealServer>
      <Link></Link>
      <RTT></RTT>
      <TTL></TTL>
    </Ipv4ProximityNode>
  </Ipv4ProximityNodes>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Ipv4ProximityNodes
Table type	Multi-instance table
Row name	Ipv4ProximityNode
Restrictions	Only IPv4 proximity node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 0 to 32.	N/A
Priority	Priority.	Index	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
LinkType	Type of the link.	N/A	Enumeration: 1—Real server. 2—Link.	N/A
RealServer	Real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 86400000. Unit: millisecond	N/A
TTL	Time to live of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 256.	N/A

LB/Ipv6ProximityNodes

This table contains information about the real servers of ipv6 proximity item.

XML structure

```

<LB>
  <Ipv6ProximityNodes>
    <Ipv6ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <Priority></Priority>
      <LinkType></LinkType>
      <RealServer></RealServer>
      <Link></Link>

```

```

<RTT></RTT>
<TTL></TTL>
</Ipv6ProximityNode>
</Ipv6ProximityNodes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Ipv6ProximityNodes
Table type	Multi-instance table
Row name	Ipv6ProximityNode
Restrictions	Only IPv6 proximity node can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
Ipv6Address	IPv6 address.	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	IPv6 prefix length.	Index	Unsigned integer. Value range: 1 to 128.	N/A
Priority	Priority.	Index	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
LinkType	Type of the link.	N/A	Enumeration: 1—Real server. 2—Link.	N/A
RealServer	Real server name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Link name.	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			case-insensitive. Length: 1 to 63 characters.	
RTT	Roundtrip time of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 86400000. Unit: millisecond	N/A
TTL	Time to live of the proximity probe.	N/A	Unsigned integer. Value range: 0 to 256.	N/A

LB/Specifications

This table contains information about the LB function specification.

XML structure

```
<LB>
  <Specifications>
    <SupportHotbackup></SupportHotbackup>
    <SupportSLB></SupportSLB>
  </Specifications>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Specifications
Table type	Single-instance table
Row name	N/A
Restrictions	Only LB function specification can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportHotbackup	Hot backup function is supported or not.	N/A	Boolean: - true—Supported. - false—Not supported.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportSLB	SLB function is supported or not	N/A	Boolean: - true—Supported. - false—Not supported.	N/A

LB/ALG

This table contains information about ALG.

XML structure

```

<LB>
  <ALG>
    <DnsEnable></DnsEnable>
    <FtpEnable></FtpEnable>
    <H323Enable></H323Enable>
    <IcmpEnable></IcmpEnable>
    <IlsEnable></IlsEnable>
    <MgcpEnable></MgcpEnable>
    <NbtEnable></NbtEnable>
    <PptpEnable></PptpEnable>
    <RshEnable></RshEnable>
    <RtspEnable></RtspEnable>
    <SccpEnable></SccpEnable>
    <SipEnable></SipEnable>
    <SqlnetEnable></SqlnetEnable>
    <TftpEnable></TftpEnable>
    <XdmcpEnable></XdmcpEnable>
  </ALG>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ALG
Table type	Single-instance table
Row name	N/A
Restrictions	Only ALG can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DnsEnable	Enable the DNS protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
TftpEnable	Enable the TFTP protocol	N/A	Enumeration: 0—Disable.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service.		1—Enable.	
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/ProximityStats

This table contains information about proximity entries.

XML structure

```

<LB>
  <ProximityStats>
    <ProximityStat>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <TotalCount></TotalCount>
      <Ipv4Count></Ipv4Count>
      <Ipv6Count></Ipv6Count>
    </ProximityStat>
  </ProximityStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ProximityStats
Table type	Multi-instance table
Row name	ProximityStat
Restrictions	Only proximity can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the card on device.		Value range: 0 to 255.	
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	The null string indicates public network.
TotalCount	The number of total proximity entries.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Ipv4Count	The number of IPv4 proximity entries.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Ipv6Count	The number of IPv6 proximity entries.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

LB/LimitPolicies

This table contains information about limit policies.

XML structure

```

<LB>
  <LimitPolicies>
    <LimitPolicy>
      <Name></Name>
      <Description></Description>
    </LimitPolicy>
  </LimitPolicies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LimitPolicies
Table type	Multi-instance table
Row name	LimitPolicy
Restrictions	Only limit policy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description information for the policy.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.

LB/LimitRules

This table contains information about limit policy rules.

XML structure

```
<LB>
  <LimitRules>
    <LimitRule>
      <Name></Name>
      <ID></ID>
      <AclVersion></AclVersion>
      <AclNum></AclNum>
      <AclName></AclName>
      <PerDestination></PerDestination>
      <PerSource></PerSource>
      <PerService></PerService>
      <ThresholdHigh></ThresholdHigh>
      <ThresholdLow></ThresholdLow>
    </LimitRule>
  </LimitRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LimitRules
Table type	Multi-instance table
Row name	LimitRule
Restrictions	Only limit policy rule can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the limit policy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ID	ID of the limit policy rule.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
AcIVersion	Version of ACL	N/A	Enumeration: 1—IPv4. 2—IPv6.	N/A
AcINum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
AcIName	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AcINum and AcIName are mutual exclusive and only one of them can be set in a single message.
PerDestination	Enable the per-destination connection limit.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
PerSource	Enable the per-source connection limit.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
PerService	Enable the per-service connection limit.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ThresholdHigh	High threshold of the connections.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	ThresholdHigh must be greater or equal than ThresholdLow.
ThresholdLow	Low threshold of the connections.	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	ThresholdHigh must be greater or equal than ThresholdLow.

LB/Links

This table contains information about link.

XML structure

```

<LB>
  <Links>
    <Link>
      <Name></Name>
      <Description></Description>
    </Link>
  </Links>
</LB>

```

```

<RouterType></RouterType>
<RouterInterface></RouterInterface>
<RouterIpv4Address></RouterIpv4Address>
<RouterIpv6Address></RouterIpv6Address>
<Weight></Weight>
<Priority></Priority>
<Cost></Cost>
<LinkGroup></LinkGroup>
<Shutdown></Shutdown>
<ProbeSuccessCriteria></ProbeSuccessCriteria>
<MaxConnectionLimit></MaxConnectionLimit>
<RateLimitConnection></RateLimitConnection>
<RateLimitBandwidth></RateLimitBandwidth>
<InRateLimitBandwidth></InRateLimitBandwidth>
<OutRateLimitBandwidth></OutRateLimitBandwidth>
<BandwidthBusyRatio></BandwidthBusyRatio>
<InBandwidthBusyRatio></InBandwidthBusyRatio>
<OutBandwidthBusyRatio></OutBandwidthBusyRatio>
<BandwidthBusyRecoverRatio></BandwidthBusyRecoverRatio>
<InBandwidthBusyRecoverRatio></InBandwidthBusyRecoverRatio>
<OutBandwidthBusyRecoverRatio></OutBandwidthBusyRecoverRatio>
<MaxBandwidth></MaxBandwidth>
<InMaxBandwidth></InMaxBandwidth>
<OutMaxBandwidth></OutMaxBandwidth>
<VRF></VRF>
<InheritVPN></InheritVPN>
<State></State>
</Link>
</Links>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Links
Table type	Multi-instance table
Row name	Link
Restrictions	Only link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
RouterType	The type of router.	N/A	Enumeration: 0—Configure. 1—Auto.	N/A
RouterInterface	Name of the router interface.	N/A	String. Case insensitive. Length: 1 to 47 characters.	N/A
RouterIPv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses, broadcast addresses are not supported, and address such as 0.x.x.x are not supported either.
RouterIPv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
Weight	Weight of the link.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the link.	N/A	Unsigned integer. Value range: 1 to 8.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Cost	The cost of link bandwidth.	NA	Unsigned integer. Value range: 0 to 10240.	N/A
LinkGroup	Name of the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
Shutdown	Shutdown state for the link.	N/A	Enumeration: • 0—Not configured. • 1—Shutdown. • 2—Slow-shutdown.	N/A
ProbeSuccessCriteria	Probe success criteria for the real server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. By default, the value is 0 which indicates that probe success criteria is all.	N/A
MaxConnectionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitConnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBandwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InRateLimitBandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutRateLimitBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
InBandwidthBusyRatio	Inbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
OutBandwidthBusyRatio	Outbound bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	N/A
BandwidthBusyRecoverRatio	Total bound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
InBandwidthBusyRecoverRatio	Inbound bandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The busy rate must be greater than or equal to the recovery rate.	
OutBandwidthBusyRecoverRatio	Outbandwidth busy recovery ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 60. The busy rate must be greater than or equal to the recovery rate.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Max inbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Max outbound bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
State	State of the link.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31	The null string indicates public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. By default, no VRF is specified.	
InheritVPN	Inherit the VPN.	N/A	Enumeration: 0—Disable inherit the VPN 1—Enable inherit the VPN.	N/A

LB/LinkProbes

This table contains information about link probe that only uses NQA template.

XML structure

```

<LB>
  <LinkProbes>
    <LinkProbe>
      <Link></Link>
      <Probe></Probe>
      <State></State>
    </LinkProbe>
  </LinkProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkProbes
Table type	Multi-instance table
Row name	LinkProbe
Restrictions	Only Link probe can be configured by this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Probe	Probe method for the link.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	State of the real server probe.	N/A	Enumeration: 0—Not exist. 1—Success. 2—Failed. 3—In the process.	N/A

LB/LinkStats

This table contains stat information about link.

XML structure

```

<LB>
  <LinkStats>
    <LinkStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <MaxConnections></MaxConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <MaxConnectionPerSec></MaxConnectionPerSec>
      <DownstreamPKTs></DownstreamPKTs>
      <UpstreamPKTs></UpstreamPKTs>
      <DroppedPackets></DroppedPackets>
      <DownstreamTraffic></DownstreamTraffic>
      <UpstreamTraffic></UpstreamTraffic>
      <Bandwidth></Bandwidth>
      <MaxBandwidth></MaxBandwidth>
      <InBandwidth></InBandwidth>
      <OutBandwidth></OutBandwidth>
      <InMaxBandwidth></InMaxBandwidth>
      <OutMaxBandwidth></OutMaxBandwidth>
    </LinkStat>
  </LinkStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkStats
Table type	Multi-instance table
Row name	LinkStat
Restrictions	Only stats of link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the link received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections that the link received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxConnections	Max connections that the link received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the link received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the link received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
Downstream	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PKTs	packets that the link received from device.		Value range: 0 to $2^{64}-1$.	
UpstreamPKTs	Number of packets that the link sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the link dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DownstreamTraffic	Number of bytes that the link received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
UpstreamTraffic	Number of bytes that the link sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InBandwidth	Inbound Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the link.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

LB/LinkOutInterfaces

This table contains out-interface rate stat information about link.

XML structure

```
<LB>
  <LinkOutInterfaces>
    <LinkOutInterface>
      <Name></Name>
      <InputRate></InputRate>
      <OutputRate></OutputRate>
    </LinkOutInterface>
  </LinkOutInterfaces>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkOutInterfaces
Table type	Multi-instance table
Row name	LinkOutInterface
Restrictions	Only out-interface rate stats of link can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
InputRate	Input rate of the link out interface.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Bytes/s.	N/A
OutputRate	Output rate of the link out interface.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Bytes/s.	N/A

LB/LinkGroups

This table contains information about link group.

XML structure

```
<LB>
  <LinkGroups>
    <LinkGroup>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectLinkMinNumber></SelectLinkMinNumber>
      <SelectLinkMaxNumber></SelectLinkMaxNumber>
      <SlowOnlineEnable></SlowOnlineEnable>
      <SlowOnlineStandbyTime></SlowOnlineStandbyTime>
      <SlowOnlineRampUpTime></SlowOnlineRampUpTime>
      <Transparent></Transparent>
      <ActivateLower></ActivateLower>
      <ActivateUpper></ActivateUpper>
      <SNATPool></SNATPool>
      <FailAction></FailAction>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalLink></TotalLink>
      <ActiveLink></ActiveLink>
      <State></State>
      <ProximityEnable></ProximityEnable>
    </LinkGroup>
  </LinkGroups>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroups
Table type	Multi-instance table
Row name	LinkGroup
Restrictions	Only link group can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Description	Description of the link group.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a link to forward packet.	N/A	Enumeration: • 0—Round-robin. • 1—Random. • 2—Least-connection. • 3—Hash source address. • 4—Hash source port. • 5—Hash destination address. • 6—Bandwidth. • 7—Inbound bandwidth. • 8—Outbound bandwidth. • 9—Max bandwidth. • 10—Max inbound bandwidth. • 11—Max Outbound bandwidth. • 12—Strict round-robin.	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
SelectLinkMinNumber	Minimum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectLinkMaxNumber	Maximum number of the active link in the link group.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SlowOnline Enable	Enable the link group slow online.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
SlowOnline StandbyTime	Standby time of the slow online.	N/A	Unsigned integer. Value range: 0 to 600. Unit: second.	N/A
SlowOnline RampUpTime	Ramp up time of the slow online.	N/A	Unsigned integer. Value range: 3 to 600. Unit: second.	N/A
Transparent	Disable NAT for the server farm.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ActivateLower	The status of main link group will be changed from in use to backup when the ratio of the available links in main link group becomes smaller than this value.	N/A	Unsigned integer. Value range: 1 to 99.	N/A
ActivateUpper	The status of main link group will be changed from backup to in use when the ratio of the available links in main link group reaches or over this value.		Unsigned integer. Value range: 1 to 99.	N/A
SNATPool	SNAT pool for the link group.	N/A	String, case-insensitive. Length: 0 to 63 characters.	N/A
FailAction	Specify the action that the LB takes with respect to connections if any link fails in a link group.	N/A	Enumeration: 0—Keep. 1—Reset. 2—Reschedule.	N/A
ProbeSuccessCriteria	The condition that link is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalLink	Total number of links in the link group.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ActiveLink	Active number of links in the link group.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
State	State of the link group.	N/A	Enumeration: 0—Unavailable. 1—Available.	N/A
ProximityEnable	Enable the proximity.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A

LB/LinkGroupProbes

This table contains information about Link Group Probe that only uses NQA template.

XML structure

```

<LB>
  <LinkGroupProbes>
    <LinkGroupProbe>
      <LinkGroup></LinkGroup>
      <Probe></Probe>
    </LinkGroupProbe>
  </LinkGroupProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupProbes
Table type	Multi-instance table
Row name	LinkGroupProbe
Restrictions	Only link group probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkGroup	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
Probe	Probe method for the link group.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/LinkGroupStats

This table contains stat information about link group.

XML structure

```
<LB>
  <LinkGroupStats>
    <LinkGroupStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <TotalConnections></TotalConnections>
      <ActiveConnections></ActiveConnections>
      <ConnectionsPerSec></ConnectionsPerSec>
      <DownstreamPKTs></DownstreamPKTs>
      <UpstreamPKTs></UpstreamPKTs>
      <DroppedPackets></DroppedPackets>
      <DownstreamTraffic></DownstreamTraffic>
      <UpstreamTraffic></UpstreamTraffic>
      <Bandwidth></Bandwidth>
    </LinkGroupStat>
  </LinkGroupStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupStats
Table type	Multi-instance table
Row name	LinkGroupStat
Restrictions	Only stats of link group can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link group.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the link group received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections that the link group received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the link group received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
DownstreamPKTs	Number of packets that the link group received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
UpstreamPKTs	Number of packets that the link group sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the link group dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DownstreamTraffic	Number of bytes that the link group received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
UpstreamTraffic	Number of bytes that the link group	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sent.		$2^{64}-1$. Unit: Byte.	
Bandwidth	Bandwidth of the link group.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

LB/Regions

This table contains information about region.

XML structure

```
<LB>
  <Regions>
    <Region>
      <Name></Name>
    </Region>
  </Regions>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	Regions
Table type	Multi-instance table
Row name	Region
Restrictions	Only region can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/RegionISPs

This table contains information about region ISP.

XML structure

```
<LB>
  <RegionISPs>
    <RegionISP>
      <Region></Region>
      <ISP></ISP>
    </RegionISP>
  </RegionISPs>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RegionISPs
Table type	Multi-instance table
Row name	RegionISP
Restrictions	Only Region ISP can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Region	Name of the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ISP	ISP for the region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

LB/TopologyRegions

This table contains information about topology region.

XML structure

```
<LB>
  <TopologyRegions>
```

```

<TopologyRegion>
  <RegionName></RegionName>
  <Ipv4Address></Ipv4Address>
  <Ipv4MaskLength></Ipv4MaskLength>
  <Ipv6Address></Ipv6Address>
  <Ipv6PrefixLength></Ipv6PrefixLength>
  <Weight></Weight>
</TopologyRegion>
</TopologyRegions>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegions
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegion can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1.
Ipv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
Weight	Weight of the	N/A	Unsigned integer.	A larger value means a higher

Column name	Column description	Column type	Data type and restrictions	Remarks
	topology region.		Value range: 1 to 255. By default, the value is 100.	weight.

LB/TopologyRegionIPv4s

This table contains information about an IPv4 topology region.

XML structure

```

<LB>
  <TopologyRegionIPv4s>
    <TopologyRegionIPv4>
      <RegionName></RegionName>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Weight></Weight>
    </TopologyRegionIPv4>
  </TopologyRegionIPv4s>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegionIPv4s
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegionIPv4 can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Addresses	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			address is specified.	
IPv4MaskLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	N/A
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/TopologyRegionIPv6s

This table contains information about an IPv6 topology region.

XML structure

```

<LB>
  <TopologyRegionIPv6s>
    <TopologyRegionIPv6>
      <RegionName></RegionName>
      <IPv6Address></IPv6Address>
      <IPv6PrefixLength></IPv6PrefixLength>
      <Weight></Weight>
    </TopologyRegionIPv6>
  </TopologyRegionIPv6s>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	TopologyRegionIPv6s
Table type	Multi-instance table
Row name	TopologyRegion
Restrictions	Only TopologyRegionIPv6 can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RegionName	Name of the topology	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	region.		Length: 1 to 63 characters.	
IPv6Addresses	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2.
IPv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128. By default, the value is 128.	N/A
Weight	Weight of the topology region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

LB/DNSListeners

This table contains information about a DNS listener.

XML structure

```

<LB>
  <DNSListeners>
    <DNSListener>
      <Name></Name>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <IPv6PortNumber></IPv6PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </DNSListener>
  </DNSListeners>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSListeners
Table type	Multi-instance table
Row name	DNSListener
Restrictions	Only DNS Listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation. By default, no IPv4 address is specified.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated. By default, no IPv6 address is specified.	Example: 2::2. Loopback addresses, multicast addresses and link local addresses are not supported.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 53.	N/A
IPv6PortNumber	Number of IPv6 port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ServiceEnable	Enable the DNS listener.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: 0—No-response. 1—Reject. 2—Dns proxy.	N/A

LB/DNSListenerStats

This table contains stat information about DNS listener.

XML structure

```
<LB>
  <DNSListenerStats>
```

```

<DNSListenerStat>
  <Name></Name>
  <ChassisID></ChassisID>
  <SlotID></SlotID>
  <CPUID></CPUID>
  <ReceivedRequests></ReceivedRequests>
  <ReceivedValidRequests></ReceivedValidRequests>
  <UnrespondedRequests></UnrespondedRequests>
  <RejectedRequests></RejectedRequests>
</DNSListenerStat>
</DNSListenerStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSListenerStats
Table type	Multi-instance table
Row name	DNSListenerStat
Restrictions	Only stats of DNS listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedValidRequests	Number of valid requests that the DNS	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	listener received from device.			
Unresponde dRequests	Number of unresponded requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
RejectedRe quests	Number of rejected requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/DNSListenerTypeStats

This table contains different type stat information about DNS listener.

XML structure

```

<LB>
  <DNSListenerTypeStats>
    <DNSListenerTypeStat>
      <Name></Name>
      <Type></Type>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </DNSListenerTypeStat>
  </DNSListenerTypeStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSListenerTypeStats
Table type	Multi-instance table

Row name	DNSListenerTypeStat
Restrictions	Only different type stats of DNS listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the DNS listener statistics.	Index	Enumeration: 0—A. 1—AAAA. 2—CNAME. 3—MX. 4—NS. 5—PTR. 6—SOA. 7—TXT. 8—SRV.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedValidRequests	Number of valid requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
UnrespondedRequests	Number of unresponded requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
RejectedRequests	Number of rejected	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	requests that the DNS listener received from device.		2 ⁰⁴ -1.	

LB/DNSProxies

This table contains information about DNS proxies.

XML structure

```

<LB>
  <DNSProxies>
    <DNSProxy>
      <Name></Name>
      <Type></Type>
      <VRF></VRF>
      <PortNumber></PortNumber>
      <ServiceEnable></ServiceEnable>
      <DefaultDNSServerPool></DefaultDNSServerPool>
      <Policy></Policy>
      <BusyProtectEnable></BusyProtectEnable>
      <ConnSynEnable></ConnSynEnable>
      <State></State>
      <StickySynEnable></StickySynEnable>
      <StickyGroup></StickyGroup>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </DNSProxy>
  </DNSProxies>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSProxies
Table type	Multi-instance table
Row name	DNSProxy
Restrictions	Only DNS proxy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the DNS proxy.	N/A	Enumeration: • 0—UDP	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters	The null string indicates public network.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
ServiceEnable	Enable the DNS proxy.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
DefaultDNS ServerPool	Name of the default DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Policy	Name of the policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
BusyProtect Enable	Enable bandwidth busy protection.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
State	State of the DNS proxy.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Disable.	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
StickyGroup	Name of the sticky group.	N/A	String, case-insensitive. Length: 0 to 63	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6PrefixLength	IPv6 prefix length.	N/A	Unsigned integer. Value range: 0 to 128.	N/A

LB/DNSProxyStats

This table contains stat information about DNS proxy.

XML structure

```

<LB>
  <DNSProxyStats>
    <DNSProxyStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSProxyStat>
  </DNSProxyStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSProxyStats
Table type	Multi-instance table
Row name	DNSProxyStat
Restrictions	Only stats of DNS proxy can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS proxy.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS proxy has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of DNS requests that the DNS proxy has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedResponses	Number of DNS responses that the DNS proxy has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of DNS responses that the DNS proxy has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of DNS responses that the DNS proxy has sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/DNSServers

This table contains information about DNS server.

XML structure

```
<LB>
  <DNSServers>
    <DNSServer>
```

```

    <Name></Name>
    <Description></Description>
    <AutoAllocAddress></AutoAllocAddress>
    <Ipv4Address></Ipv4Address>
    <Ipv6Address></Ipv6Address>
    <PortNumber></PortNumber>
    <DNSServerPool></DNSServerPool>
    <Link></Link>
    <Weight></Weight>
    <Priority></Priority>
    <ProbeSuccessCriteria></ProbeSuccessCriteria>
    <State></State>
  </DNSServer>
</DNSServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServers
Table type	Multi-instance table
Row name	DNSServer
Restrictions	Only DNS server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the real server.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
AutoAllocAddress	Automatic allocable address for DNS server. Include IPv4 address and IPv6 address.	N/A	Numeration: 0—Disable. 1—Enable.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Address	IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
PortNumber	Number of port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DNSServerPool	Name of the DNS server pool.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Link	Name of the link.	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the DNS server.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
ProbeSuccessCriteria	Probe success criteria for the DNS server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
State	State of the DNS server.	N/A	Enumeration: • 0—Unavailable. • 1—Available. • 2—Probe-failed. • 3—Busy.	N/A

LB/DNSServerProbes

This table contains information about DNS server probe that only uses NQA template.

XML structure

```

<LB>
  <DNSServerProbes>
    <DNSServerProbe>
      <DNSServer></DNSServer>
      <Probe></Probe>
      <State></State>
    </DNSServerProbe>
  </DNSServerProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerProbes
Table type	Multi-instance table
Row name	DNSServerProbe
Restrictions	Only DNS server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	State of the DNS server probe.	N/A	Enumeration: • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process.	N/A

LB/DNSServerStats

This table contains stat information about DNS server.

XML structure

```
<LB>
  <DNSServerStats>
    <DNSServerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerStat>
  </DNSServerStats>
</LB>
```

```
</DNSServerStats>  
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerStats
Table type	Multi-instance table
Row name	DNSServerStat
Restrictions	Only stats of DNS server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS server has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of DNS requests that the DNS server has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedResponses	Number of DNS responses that the DNS server has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of DNS responses that the DNS server has	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	dropped.			
SentResponses	Number of DNS responses that the DNS server has sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/DNSServerPools

This table contains information about DNS server pool.

XML structure

```

<LB>
  <DNSServerPools>
    <DNSServerPool>
      <Name></Name>
      <Description></Description>
      <Predictor></Predictor>
      <HashIpv4PrefixLength></HashIpv4PrefixLength>
      <HashIpv6PrefixLength></HashIpv6PrefixLength>
      <SelectServerMinNumber></SelectServerMinNumber>
      <SelectServerMaxNumber></SelectServerMaxNumber>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <TotalDNSServer></TotalDNSServer>
      <ActiveDNSServer></ActiveDNSServer>
      <State></State>
    </DNSServerPool>
  </DNSServerPools>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPools
Table type	Multi-instance table
Row name	DNSServerPool
Restrictions	Only DNS server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the DNS server pool.	N/A	String. Length: 1 to 127 characters.	The null string indicates the label is not configured.
Predictor	Predictor algorithm for LB to select a DNS server to serve a DNS request.	N/A	Enumeration: • 0—Round-robin (default). • 1—Random. • 2—Bandwidth. • 3—Inbound bandwidth. • 4—Outbound bandwidth. • 5—Max bandwidth. • 6—Max inbound bandwidth. • 7—Max outbound bandwidth. • 8—Hash source address. • 9—Hash source port. • 10—Hash destination address.	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
SelectServerMinNumber	Minimum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
SelectServerMaxNumber	Maximum number of the active real server in the server farm.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
ProbeSuccessCriteria	The condition that real server	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	is available through probes.		Value range: 0 to $2^{32}-1$.	
TotalDNSServer	Total number of DNS servers in the DNS server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ActiveDNSServer	Active number of DNS servers in the DNS server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
State	State of the DNS server pool.	N/A	Enumeration: 0—Unavailable. 1—Available.	N/A

LB/DNSServerPoolProbes

This table contains information about DNS server pool probe that only uses NQA template.

XML structure

```

<LB>
  <DNSServerPoolProbes>
    <DNSServerPoolProbe>
      <DNSServerPool></DNSServerPool>
      <Probe></Probe>
    </DNSServerPoolProbe>
  </DNSServerPoolProbes>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolProbes
Table type	Multi-instance table
Row name	DNSServerPoolProbe
Restrictions	Only DNS server pool probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServerPool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the DNS server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPoolStats

This table contains stat information about DNS server pool.

XML structure

```
<LB>
  <DNSServerPoolStats>
    <DNSServerPoolStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerPoolStat>
  </DNSServerPoolStats>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolStats
Table type	Multi-instance table
Row name	DNSServerPoolStat
Restrictions	Only stats of DNS server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ChassisID	ID of the device that holds the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A
SlotID	Member ID of the card on device.	Index	Unsigned integer. Value range: 0 to 255.	N/A
CPUID	ID of the CPU on the card.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS server pool has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of DNS requests that the DNS server pool has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedResponses	Number of DNS responses that the DNS server pool has received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of DNS responses that the DNS server pool has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of DNS responses that the DNS server pool has sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

LB/Log

This table contains information about LB logs.

XML structure

<LB>

```

<Log>
  <BaseEnable></BaseEnable>
  <NatEnable></NatEnable>
  <BandwidthBusyEnable></BandwidthBusyEnable>
</Log>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	Log
Table type	Single-instance table
Row name	N/A
Restrictions	Only log can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaseEnable	Enable the base log of LB.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: 0—Disable (default). 1—Enable.	N/A

LB/SnatArpInterfaces

This table contains information about SNAT interfaces.

XML structure

```

<LB>
  <SnatArpInterfaces>
    <SnatArpInterface>
      <SnatName></SnatName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </SnatArpInterface>
  </SnatArpInterfaces>
</LB>

```

```

    </SnatArpInterfaces>
  </LB>

```

Table description

Item	Description
Feature name	LB
Table name	SnatArpInterfaces
Table type	Multi-instance table
Row name	SnatArpInterface
Restrictions	Only SNAT interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SnatName	Name of the SNAT pool.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

LB/VServerArpInterfaces

This table contains information about virtual server interfaces.

XML structure

```

<LB>
  <VServerArpInterfaces>
    <VServerArpInterface>
      <VServerName></VServerName>
      <IfList>
        <IfIndex></IfIndex>
      </IfList>
    </VServerArpInterface>
  </VServerArpInterfaces>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	VServerArpInterfaces
Table type	Multi-instance table
Row name	VServerArpInterface
Restrictions	Only virtual server interfaces can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VServerName	Name of the virtual server.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
IfList	Interface index list	Data structure	Members include: IfIndex.	N/A
IfIndex	Interface index	N/A	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```
<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Type></Type>
      <Frequency></Frequency>
      <Timeout></Timeout>
    </ProbeTemplate>
  </ProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplate
Table type	Multi-instance table
Row name	N/A
Restrictions	Only probe template can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Type of the probe template .	N/A	Enumeration: • 0—ICMP.	N/A
Frequency	Frequency of the probe template.	N/A	Unsigned integer. Value range: 5 to 604800. Unit: second.	N/A
Timeout	Timeout time of the probe template.	N/A	Unsigned integer. Value range: 1 to 60. Unit: second.	N/A

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XML structure	5
Table description	5
Columns	5

Ldap

Ldap/Schemes

LDAP scheme information table.

XML structure

```
<Ldap>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <ServerName></ServerName>
      <MapInstanceName></MapInstanceName>
    </Scheme>
  </Schemes>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 LDAP schemes are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.
ServerName	LDAP authentication server name.	N/A	String, case-insensitive. Length: 1 to 64 characters.
MapInstanceName	LDAP attribute map name.	N/A	String, case-insensitive. Length: 1 to 31 characters.

Ldap/Servers

LDAP server information table.

XML structure

```
<Ldap>
  <Servers>
    <Server>
      <ServerName></ServerName>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <TimeOut></TimeOut>
      <ProtocolVersion></ProtocolVersion>
      <LoginDn></LoginDn>
      <LoginPassword></LoginPassword>
      <SearchScope></SearchScope>
      <SearchBaseDn></SearchBaseDn>
      <UserParas>
        <NameType></NameType>
        <NameFormat></NameFormat>
        <NameAttribute></NameAttribute>
        <ObjClassName></ObjClassName>
      </UserParas>
      <GroupFilter></GroupFilter>
    </Server>
  </Servers>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	A maximum of 16 LDAP servers are supported.

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	LDAP server name.	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
VRF	The VPN to which the LDAP server belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error.
IpType	Type of the LDAP server address.	N/A	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	The value in this column is valid only when the Host value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	LDAP server.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	TCP port number of the LDAP server.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 389. The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error.
TimeOut	LDAP server timeout period, the maximum time that the device waits for an LDAP response.	N/A	Unsigned integer. Value range: 5 to 20, in seconds.	Default: 10 seconds.
ProtocolVersion	LDAP protocol version.	N/A	Enumeration: 2—LDAPv2. 3—LDAPv3.	Default: 3.
LoginDn	Administrator	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	DN.		Length: 1 to 255 characters.	
LoginPassword	Administrator password.	N/A	String. Length: 1 to 128 characters.	N/A
SearchScope	User search scope.	N/A	Enumeration: • 0—All subdirectories of the base DN. • 1—Next lower level of subdirectories under the base DN.	Default: 0.
SearchBaseDN	User search base DN.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserParas	LDAP user attributes.	Data structure	Members include: • NameType. • NameFormat. • NameAttribute. • ObjClassName.	N/A
NameType	User name attribute type.	N/A	Enumeration: • 1—The value in the NameAttribute column. • 2—The common name. • 3—The user ID.	Default: 2.
NameFormat	Format of user names to be sent to LDAP servers.	N/A	Enumeration: • 0—with-domain. • 1—without-domain.	Default: 1
NameAttribute	The value that represents a type of user name attribute.	N/A	String, case-insensitive. Length: 1 to 64 characters.	This column is created only when the value of the NameType column is 1. If this column doesn't appear when the NameType value is 1, the system reports an error. The NameAttribute column must be deleted together with the NameType column. However, the NameType column can be deleted without the NameAttribute column.
ObjClassName	User object class.	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
GroupFilter	Filter condition for exporting user groups.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Default: "(objectclass=group)"

Ldap/AttributeMaps

LDAP attribute map information table.

XML structure

```
<Ldap>
  <AttributeMaps>
    <AttributeMap>
      <MapName></MapName>
      <LdapAttrName></LdapAttrName>
      <Prefix></Prefix>
      <Delimiter></Delimiter>
      <AaaAttrType></AaaAttrType>
    </AttributeMap>
  </AttributeMaps>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	AttributeMaps
Table type	Multi-instance table
Row name	AttributeMap
Restrictions	A maximum of 16 LDAP attribute maps are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
MapName	LDAP attribute map name.	Index	String, case-insensitive. Length: 1 to 31 characters.
LdapAttrName	LDAP attribute name.	Index	String, case-insensitive. Length: 1 to 63 characters.
Prefix	LDAP attribute prefix.	N/A	String, case-insensitive. Length: 0 to 7 characters.
Delimiter	LDAP attribute delimiter.	N/A	String, case-insensitive. Length: 0 to 1 characters.

Column name	Column description	Column type	Data type and restrictions
AaaAttrType	AAA attribute type.	N/A	Enumeration: • 1—user-group. • 2—user-profile.

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XML structure	2
Table description	2
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Ldap/AttributeMaps	4
XML structure	4
Table description	5
Columns	5

Ldap

Ldap/Schemes

LDAP scheme information table.

XML structure

```
<Ldap>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <ServerName></ServerName>
      <MapInstanceName></MapInstanceName>
    </Scheme>
  </Schemes>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 LDAP schemes are supported.

Columns

Column name	Column description	Column type	Data type and restrictions
SchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.
ServerName	LDAP authentication server name.	N/A	String, case-insensitive. Length: 1 to 64 characters.
MapInstanceName	LDAP attribute map name.	N/A	String, case-insensitive. Length: 1 to 31 characters.

Ldap/Servers

LDAP server information table.

XML structure

```
<Ldap>
  <Servers>
    <Server>
      <ServerName></ServerName>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <TimeOut></TimeOut>
      <ProtocolVersion></ProtocolVersion>
      <LoginDn></LoginDn>
      <SearchScope></SearchScope>
      <SearchBaseDn></SearchBaseDn>
      <UserParas>
        <NameType></NameType>
        <NameFormat></NameFormat>
        <NameAttribute></NameAttribute>
        <ObjClassName></ObjClassName>
      </UserParas>
      <GroupFilter></GroupFilter>
    </Server>
  </Servers>
</Ldap>
```

Table description

Item	Description
Feature name	Ldap
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	A maximum of 16 LDAP servers are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	LDAP server name.	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
VRF	The VPN to which the LDAP server belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	The value in this column is valid when both the IpType and Host values are available. If either the IpType value or the Host value is unavailable, the system reports an error.
IpType	Type of the LDAP server address.	N/A	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	The value in this column is valid only when the Host value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Host	LDAP server.	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is unavailable, the system reports an error.
Port	TCP port number of the LDAP server.	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 389. The value in this column is valid only when both the IpType and Host values are available. When the server IP address is unavailable, the port number is not displayed.
TimeOut	LDAP server timeout period, the maximum time that the device waits for an LDAP response.	N/A	Unsigned integer. Value range: 5 to 20, in seconds.	Default: 10 seconds.
ProtocolVersion	LDAP protocol version.	N/A	Enumeration: 2—LDAPv2. 3—LDAPv3.	Default: 3.
LoginDn	Administrator DN.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
SearchScope	User search scope.	N/A	Enumeration: 0—All subdirectories of	Default: 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
			the base DN. 1—Next lower level of subdirectories under the base DN.	
SearchBaseDn	User search base DN.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
UserParas	LDAP user attributes.	Data structure	Members include: - NameType. - NameFormat. - NameAttribute. - ObjClassName.	N/A
NameType	User name attribute type.	N/A	Enumeration: 1—The value in the NameAttribute column. 2—The common name. 3—The user ID.	Default: 2.
NameFormat	Format of user names to be sent to LDAP servers.	N/A	Enumeration: 0—with-domain. 1—without domain.	Default: 1.
NameAttribute	The value that represents a type of user name attribute.	N/A	String, case-insensitive. Length: 1 to 64 characters.	This column is created only when the value of the NameType column is 1. If this column doesn't appear when the NameType value is 1, the system reports an error. The NameAttribute column must be deleted together with the NameType column. However, the NameType column can be deleted without the NameAttribute column.
ObjClassName	User object class.	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
GroupFilter	Filter condition for exporting user groups.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Default: "(objectclass=group)"

Ldap/AttributeMaps

LDAP attribute map information table.

XML structure

<Ldap>

```

<AttributeMaps>
  <AttributeMap>
    <MapName></MapName>
    <LdapAttrName></LdapAttrName>
    <Prefix></Prefix>
    <Delimiter></Delimiter>
    <AaaAttrType></AaaAttrType>
  </AttributeMap>
</AttributeMaps>
</Ldap>

```

Table description

Item	Description
Feature name	Ldap
Table name	AttributeMaps
Table type	Multi-instance table
Row name	AttributeMap
Restrictions	A maximum of 16 LDAP attribute maps are supported.

Columns

Column name	Column description	Column type	Data type and restrictions
MapName	LDAP attribute map name.	Index	String, case-insensitive. Length: 1 to 31 characters.
LdapAttrName	LDAP attribute name.	Index	String, case-insensitive. Length: 1 to 63 characters.
Prefix	LDAP attribute prefix.	N/A	String, case-insensitive. Length: 0 to 7 characters.
Delimiter	LDAP attribute delimiter.	N/A	String, case-insensitive. Length: 0 to 1 characters.
AaaAttrType	AAA attribute type.	N/A	Enumeration: 1—user-group. 2—user-profile.

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LDP

LDP/ResetAllLDPs

This table is used to reset all LDP sessions.

XML structure

```
<LDP>
  <ResetAllLDPs>
    <Reset></Reset>
  </ResetAllLDPs>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	ResetAllLDPs
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Reset all LDP sessions	N/A	This column must be empty.	N/A

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LDP

LDP/Base

This table contains global LDP information.

XML structure

```
<LDP>
  <Base>
    <Enable></Enable>
    <LSPTrigger></LSPTrigger>
  </Base>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations. You must enable LDP first before other LDP configuration.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether LDP feature is enabled globally	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: 1—Default policy(default). 2—ALL.	N/A

LDP/Interfaces

This table contains LDP interface information.

XML structure

```
<LDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enable	Enable LDP for the interface.	N/A	Boolean: • true—Enabled. • false—Disabled(default).	N/A

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XML structure	1
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LDP

LDP/Base

This table contains global LDP information.

XML structure

```
<LDP>
  <Base>
    <Enable></Enable>
    <LSPTrigger></LSPTrigger>
  </Base>
</LDP>
```

Table description

Item	Description
Feature name	LDP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether LDP feature is enabled globally	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: • 1—Default policy(default). • 2—ALL. • 3—Prefix-list	You can not get detail information when the type is Prefix-list.

LDP/Interfaces

This table contains LDP interface information.

XML structure

```
<LDP>
```

```

<Interfaces>
  <Interface>
    <IfIndex></IfIndex>
    <Enable></Enable>
  </Interface>
</Interfaces>
</LDP>

```

Table description

Item	Description
Feature name	LDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enable	Enable LDP for the interface	N/A	Boolean: true—Enabled. false—Disabled.	N/A

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License

License/Operations

This table describes the actions that use to install or uninstall feature.

XML structure

```
<License>
  <Operations>
    <Operation>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <OpType></OpType>
      <OpTarget>
        <ActivationFile></ActivationFile>
        <ActivationKey></ActivationKey>
        <LicenseKey></LicenseKey>
      </OpTarget>
    </Operation>
  </Operations>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Operations
Table type	Multi-instance table
Row name	Operation
Restrictions	The objects of OpTarget are mutual exclusion.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices—In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices—In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535. When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
OpType	Operation type.	N/A	Enumeration: • 1—Install license. • 2—Uninstall license. • 3—Compress. • 4—Delete the special license.	When the value is 1, 2 or 4, only one object of OpTarget can be carried. When the value is 3, anyone of OpTarget can't be carried.
OpTarget	Operation target.	Data structure	Members include: • ActivationFile. • ActivationKey. • LicenseKey.	N/A
ActivationFile	An activation file with the full path.	N/A	String. Length: 1 to 255 characters.	N/A
ActivationKey	Activation key.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LicenseKey	License key.	N/A	String. Length: 1 to 255 characters. Format: Every group is made up of several characters, and during the groups use "-" as a delimiter.	Due to historical reasons, the length of the authorization code for each group is not uniform.

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License

License/Systems

This table contains license system information.

XML structure

```
<License>
  <Systems>
    <System>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <SerialNumber></SerialNumber>
      <DeviceIDType></DeviceIDType>
      <DeviceID></DeviceID>
      <HardwareInfo></HardwareInfo>
      <Max></Max>
      <Used></Used>
      <Recyclable></Recyclable>
      <InstallType></InstallType>
      <ActivationFileStoragePath></ActivationFileStoragePath>
    </System>
  </Systems>
</License>
```

Table description

Item	Description
Feature name	License
Table name	Systems
Table type	Multi-instance table
Row name	System
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices—In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices—In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535. When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
SerialNumber	The serial number of the device.	N/A	String. Length: 1 to 255 characters.	N/A
DeviceIDType	The types of device ID.	N/A	Enumeration: • 1—invalid. • 2—keyString. • 3—file.	N/A
DeviceID	A string represents the device ID.	N/A	String. Length: 1 to 255 characters.	If the value of DeviceIDType is 1, DeviceID does not exist. If the value of DeviceIDType is 3, DeviceID is the file name with the full path.
HardwareInfo	The information of the hardware.	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Max	The max number of licenses that can be installed in device.	N/A	Unsigned integer.	N/A
Used	The number of installed licenses.	N/A	Unsigned integer.	N/A
Recyclable	The number of recyclable licenses.	N/A	Unsigned integer.	N/A
InstallType	The install-Type of license.	N/A	Enumeration: 1—invalid. 2—installInChassis. 3—installInSlot. 4—installInCPU.	N/A
ActivationFile StoragePath	The storage path of the installed license files.	N/A	String. Length: 1 to 255 characters.	N/A

License/Summaries

This table contains the summary information of installed license.

XML structure

```

<License>
  <Summaries>
    <Summary>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Index></Index>
      <Feature></Feature>
      <ProductDescr></ProductDescr>
      <FileDescr></FileDescr>
      <State></State>
      <Installed>
        <ActivationFile></ActivationFile>
        <ActivationKey></ActivationKey>
        <LicenseKey></LicenseKey>
      </Installed>
      <Uninstalled>
        <UninstActivationFile></UninstActivationFile>
        <UninstActivationKey></UninstActivationKey>
      </Uninstalled>
    </Summary>
  </Summaries>
</License>

```

```

</Uninstalled>
<Type></Type>
<InstalledTime></InstalledTime>
<UninstalledTime></UninstalledTime>
<DaysLeft></DaysLeft>
<DaysLeftWarning></DaysLeftWarning>
<ValidityStart></ValidityStart>
<ValidityEnd></ValidityEnd>
<ExpiredDays></ExpiredDays>
<Count></Count>
</Summary>
</Summaries>
</License>

```

Table description

Item	Description
Feature name	License
Table name	Summaries
Table type	Multi-instance table
Row name	Summary
Restrictions	Installed group and uninstalled group are related with license state, and the members in installed group are mutual exclusion.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: Chassis. Slot. CPUID.	N/A
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices—In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices—In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535. When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
Index	License index.	Index	Unsigned integer.	After the compression operation, the uninstalled license index will be deleted; and the installed license index will remain unchanged.
Feature	The name of feature which have licensed.	N/A	String. Length: 0 to 1024 characters.	Here multiple feature names can be displayed with spaces as delimiters.
ProductDescr	The description of product BOM in activation file.	N/A	String. Length: 1 to 1024 characters.	N/A
FileDescr	The description of file in a license.	N/A	String. Length: 1 to 1024 characters.	N/A
State	The state of an installed license.	N/A	Enumeration: 1—invalid. 2—inuse. 3—usable. 4—expired. 5—uninstalled. 6—unusable.	N/A
Installed	N/A	Data structure	Members include: - ActivationFile. - ActivationKey. - LicenseKey.	N/A
ActivationFile	Name of an installed activation file, with device name and file name.	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ActivationKey	The activation key which has been installed.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A
LicenseKey	The license key which has been installed.	N/A	String. Length: 1 to 255 characters. Format: Every group is made up of several characters, and during the groups use "-" as a delimiter.,	Due to historical reasons, the length of the authorization code for each group is not uniform.
Uninstalled	N/A	Data structure	Members include: - UninstActivationFile. - UninstActivationKey.	Only after uninstalling, the membership information in this group can be read.
UninstActivationFile	Name of an uninstalled activation file, with device name and file name.	N/A	String. Length: 1 to 255 characters.	N/A
UninstActivationKey	The activation key which has been uninstalled.	N/A	String. Length: 1 to 254 characters. Format: XXXX-XXXX-...-XXXX.	N/A
Type	License type by validity period.	N/A	Enumeration: 1—unknown. 2—permanent. 3—daysRestricted. 4—trialDaysRestricted. 5—dateRestricted. 6—trialDateRestricted. 7—countRestricted. 8—trialCountRestricted.	N/A
InstalledTime	Time when the license was installed.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UninstalledTime	The time when the license was uninstalled.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	Only after uninstalling, it can be read.
DaysLeft	Remaining days of the license.	N/A	Unsigned integer.	When the value of Type is 3 or 4, this column is effective.
DaysLeftWarning	Whether the license will be expired.	N/A	Boolean: True false	When the left days are below 10%, the value of this column is true.
ValidityStart	Start date for a date restricted license.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	When the value of Type is 5 or 6, this column is effective.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityEnd	End date for a date restricted license.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	When the value of Type is 5 or 6, this column is effective. But if there is no time limit authorization, this column does not exist value.
ExpiredDays	The number of passed days after a license has been expired.	N/A	Unsigned integer.	Only when the value of state is 4, this column is meaningful.
Count	The effective number of License.	N/A	Unsigned integer.	When the value of Type is 7 or 8, this column is effective.

License/Features

This table contains information about the features.

XML structure

```

<License>
  <Features>
    <Feature>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <State></State>
    </Feature>
  </Features>
</License>

```

Table description

Item	Description
Feature name	License
Table name	Features
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: • Chassis. • Slot. • CPUID.	N/A
Chassis	ID of the member where the entity resides. Specifies the member ID of an IRF member device. (Distributed devices—In IRF mode.)	Index	Unsigned integer. Value range: 0 to 65535.	N/A.
Slot	Slot number of the entity. Specifies the slot number of an MPU. (Distributed devices—In standalone mode.) Specifies the member ID of an IRF member device. (Centralized IRF devices.)	Index	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535. When the InstallType of License/Systems is 2, the Slot is the member of local active MPU.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	If there is no CPU number, return 65535. When the InstallType of License/systems is 2 or 3, the CPUID is 65535.
Name	Feature name.	Index	String. Length: 1 to 31 characters.	N/A
Status	Feature status.	N/A	Enumeration: • 1—No license has been installed. • 2—Trial license has been installed. • 3—Purchased license has been installed.	N/A

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LICMGR

LICMGR/Switch

This table contains state information about the lawful interception feature.

XML structure

```
<LICMGR>
  <Switch>
    <Switch></Switch>
  </Switch>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Switch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	State of the lawful interception feature	N/A	Boolean: • true—Enable. • false—Disabled.

LICMGR/INEID

This table contains the INE ID.

XML structure

```
<LICMGR>
  <INEID>
    <ID></ID>
  </INEID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	INEID
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ID	INE ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/LICID

This table contains the LIC ID.

XML structure

```
<LICMGR>
  <LICID>
    <ID></ID>
  </LICID>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	LICID
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ID	LIC ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/Bandwidth

This table contains X3 interface bandwidth information.

XML structure

```
<LICMGR>
  <Bandwidth>
    <Bandwidth></Bandwidth>
  </Bandwidth>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Bandwidth
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Bandwidth	X3 interface bandwidth	N/A	Unsigned integer. Value range: 8 to 1000000, in kbps.

LICMGR/Key

This table contains lawful interception key information.

XML structure

```
<LICMGR>
  <Key>
```

```

<Key>
  <Type></Type>
  <KI></KI>
  <Password></Password>
  <SqnGroup></SqnGroup>
</Key>
</Key>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	Key
Table type	Multi-instance table
Row name	Key
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: 1—X1. 2—X2.
KI	Key ID	N/A	String, case sensitive. Length: 16 characters.
Password	Password	N/A	String, case sensitive. Length: 16 characters.
SqnGroup	Sequence number group	N/A	Unsigned integer. Value range: 2 to 4294967295.

LICMGR/X1Timer

This table contains information about the X1 no-message timer.

XML structure

```

<LICMGR>
  <X1Timer>
    <NoMessage></NoMessage>
  </X1Timer>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Timer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
NoMessage	No-message timer.	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.

LICMGR/X2Timer

This table contains information about X2 timers.

XML structure

```
<LICMGR>
  <X2Timer>
    <KeepAlive></KeepAlive>
    <Normal></Normal>
  </X2Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Timer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.

LICMGR/X3Timer

This table contains information about X3 timers.

XML structure

```
<LICMGR>
  <X3Timer>
    <Timer>
      <ConnectionID></ConnectionID>
      <KeepAlive></KeepAlive>
      <Normal></Normal>
      <Retry></Retry>
    </Timer>
  </X3Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Timer
Table type	Multi-instance table
Row name	Timer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.
Retry	Retry timer	N/A	Unsigned integer. Value range: 1 to 1000, in seconds.

LICMGR/X3Service

This table contains X3 service chassis and slot information.

XML structure

```

<LICMGR>
  <X3Service>
    <Chassis></Chassis>
    <Slot></Slot>
  </X3Service>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Service
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.

LICMGR/X1Connection

This table contains information about the X1 connection.

XML structure

```
<LICMGR>
  <X1Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X1Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Connection
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LocalIPv6Address column.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LocalIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

LICMGR/X2Connection

This table contains information about the X2 connection.

XML structure

```

<LICMGR>
  <X2Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LICPort></LICPort>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X2Connection>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Connection
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.

Column name	Column description	Column type	Data type and restrictions	Remarks
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

LICMGR/X3Connection

This table contains information about X3 connections.

XML structure

```

<LICMGR>
  <X3Connection>
    <Connection>
      <ConnectionID></ConnectionID>
      <LICIPAddress></LICIPAddress>
      <LICIPv6Address></LICIPv6Address>
      <LICPort></LICPort>
      <LocalIPAddress></LocalIPAddress>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
    </Connection>
  </X3Connection>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Connection
Table type	Multi-instance table
Row name	Connection

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.	N/A
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LICIPv6Address column.
LICIPv6Address	LIC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LICIPAddress column.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column cannot be configured together with the LocalIPv6Address column.
LocalIPv6Address	Local IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column cannot be configured together with the LocalIPAddress column.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.	Required.

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LICMGR

LICMGR/Switch

This table contains state information about the lawful interception feature.

XML structure

```
<LICMGR>
  <Switch>
    <Switch></Switch>
  </Switch>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Switch
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Switch	State of the lawful interception feature	N/A	Boolean: • true—Enable. • false—Disabled.

LICMGR/INEID

This table contains the INE ID.

XML structure

```
<LICMGR>
  <INEID>
    <ID></ID>
  </INEID>
</LICMGR>
```


Table description

Item	Description
Feature name	LICMGR
Table name	INEID
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	INE ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/LICID

This table contains the LIC ID.

XML structure

```
<LICMGR>  
  <LICID>  
    <ID></ID>  
  </LICID>  
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	LICID
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	LIC ID	N/A	String, case sensitive. Length: 1 to 32 characters.

LICMGR/Bandwidth

This table contains X3 interface bandwidth information.

XML structure

```
<LICMGR>
  <Bandwidth>
    <Bandwidth></Bandwidth>
  </Bandwidth>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	Bandwidth
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Bandwidth	X3 interface bandwidth	N/A	Unsigned integer. Value range: 8 to 1000000, in kbps.

LICMGR/Key

This table contains lawful interception key information.

XML structure

```
<LICMGR>
  <Key>
    <Key>
      <Type></Type>
      <KI></KI>
      <Password></Password>
      <SqnGroup></SqnGroup>
    </Key>
  </Key>
</LICMGR>
```

</LICMGR>

Table description

Item	Description
Feature name	LICMGR
Table name	Key
Table type	Multi-instance table
Row name	Key
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • 1—X1. • 2—X2.
KI	Key ID	N/A	String, case sensitive. Length: 16 characters.
KIConfig	Whether the key ID is configured	N/A	Enumeration: • true—Key ID is configured. • false—Key ID is not configured.
Password	Password	N/A	String, case sensitive. Length: 16 characters.
PasswordConfig	Whether the password is configured	N/A	Boolean: • true—Password is configured. • false—Password is not configured.
SqnGroup	Sequence number group	N/A	Unsigned integer. Value range: 2 to 4294967295.

LICMGR/X1Timer

This table contains information about the X1 no-message timer.

XML structure

```
<LICMGR>
  <X1Timer>
    <NoMessage></NoMessage>
  </X1Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Timer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
NoMessage	No-message timer.	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.

LICMGR/X2Timer

This table contains information about X2 timers.

XML structure

```
<LICMGR>
  <X2Timer>
    <KeepAlive></KeepAlive>
    <Normal></Normal>
  </X2Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Timer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.

LICMGR/X3Timer

This table contains information about X3 timers.

XML structure

```
<LICMGR>
  <X3Timer>
    <Timer>
      <ConnectionID></ConnectionID>
      <KeepAlive></KeepAlive>
      <Normal></Normal>
      <Retry></Retry>
    </Timer>
  </X3Timer>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Timer
Table type	Mutil-instance table
Row name	Timer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in

Column name	Column description	Column type	Data type and restrictions
			seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.
Retry	Retry timer	N/A	Unsigned integer. Value range: 1 to 1000, in seconds.

LICMGR/X3Service

This table contains X3 service chassis and slot information.

XML structure

```
<LICMGR>
  <X3Service>
    <Chassis></Chassis>
    <Slot></Slot>
  </X3Service>
</LI>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Service
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.

LICMGR/X1Connection

This table contains information about the X1 connection.

XML structure

```
<LICMGR>
  <X1Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X1Connection>
</LICMGR>
```

Table description

Item	Description
Feature name	LICMGR
Table name	X1Connection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

LICMGR/X2Connection

This table contains information about the X2 connection.

XML structure

```
<LICMGR>
  <X2Connection>
    <LICIPAddress></LICIPAddress>
    <LICIPv6Address></LICIPv6Address>
    <LICPort></LICPort>
```

```

    <LocalIPAddress></LocalIPAddress>
    <LocalIPv6Address></LocalIPv6Address>
    <LocalPort></LocalPort>
  </X2Connection>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X2Connection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

LICMGR/X3Connection

This table contains information about X3 connections.

XML structure

```

<LICMGR>
  <X3Connection>
    <Connection>
      <ConnectionID></ConnectionID>
      <LICIPAddress></LICIPAddress>
      <LICIPv6Address></LICIPv6Address>
      <LICPort></LICPort>
      <LocalIPAddress></LocalIPAddress>
      <LocalIPv6Address></LocalIPv6Address>
    </Connection>
  </X3Connection>
</LICMGR>

```



```

        <LocalPort></LocalPort>
    </Connection>
</X3Connection>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X3Connection
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

LICMGR/PacketsStatistics

This table contains lawful interception packet statistics.

XML structure

```

<LICMGR>
  <PacketsStatistics>
    <Statistic>
      <Type></Type>
      <PacketIn></PacketIn>
      <PacketOut></PacketOut>
      <ByteIn></ByteIn>
      <ByteOut></ByteOut>
    </Statistic>
  </PacketsStatistics>
</LICMGR>

```

```

    </Statistic>
  </PacketsStatistics>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	PacketsStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: 1—X1. 2—X2. 3—X3.
PacketIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
PacketOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

LICMGR/X3PacketsStatistics

This table contains X3 packet statistics.

XML structure

```

<LICMGR>
  <X3PacketsStatistics>
    <Statistic>
      <ConnectionID></ConnectionID>
      <PacketIn></PacketIn>
      <PacketOut></PacketOut>
      <ByteIn></ByteIn>
      <ByteOut></ByteOut>
    </Statistic>
  </X3PacketsStatistics>
</LICMGR>

```

```

    <Count></Count>
    <SuccessCount></SuccessCount>
  </Statistic>
</X3PacketsStatistics>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	X3PacketsStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
PacketIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
PacketOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
Count	LIC channel creation count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
SuccessCount	LIC channel creation success count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

LICMGR/IntervalStatistics

This table contains periodically collected packet statistics.

XML structure

```

<LICMGR>
  <IntervalStatistics>
    </Statistic>

```

```

<ID></ID>
<X1PacketIn></X1PacketIn>
<X1PacketOut></X1PacketOut>
<X1ByteIn></X1ByteIn>
<X1ByteOut></X1ByteOut>
<X2PacketIn></X2PacketIn>
<X2PacketOut></X2PacketOut>
<X2ByteIn></X2ByteIn>
<X2ByteOut></X2ByteOut>
<X3PacketIn></X3PacketIn>
<X3PacketOut></X3PacketOut>
<X3ByteIn></X3ByteIn>
<X3ByteOut></X3ByteOut>
<Time></Time>
</Statistic>
<IntervalStatistics>
</LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	IntervalStatistics
Table type	Multi-instance table
Row name	Statistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Sequence number of a statistics collection interval	Index	Unsigned integer.
X1PacketIn	X1 incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1PacketOut	X1 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1ByteIn	X1 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1ByteOut	X1 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2PacketIn	X2 incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
X2PacketOut	X2 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2ByteIn	X2 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2ByteOut	X2 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3PacketIn	X3 incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3PacketOut	X3 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3ByteIn	X3 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3ByteOut	X3 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
Time	Time when the statistics were collected	N/A	String.

LICMGR/ControlTargets

This table contains target information.

XML structure

```

<LICMGR>
  <ControlTargets>
    </Target>
    <ID></ID>
    <Type></Type>
    <TargetIP></TargetIP>
    <TargetIPv6></TargetIPv6>
    <TargetMask></TargetMask>
    <TargetMaskSubnet></TargetMaskSubnet>
    <TargetPort></TargetPort>
    <TargetVRF></TargetVRF>
    <TargetVRFPort></TargetVRFPort>
    <VisitedIP></VisitedIP>
    <VisitedIPv6></VisitedIPv6>
    <VisitedMask></VisitedMask>
    <VisitedMaskSubnet></VisitedMaskSubnet>
    <VisitedPort></VisitedPort>
    <TransportPro></TransportPro>
    <ApplicationType></ApplicationType>
  </Target>

```

```

    <ControlTargets>
  </LICMGR>

```

Table description

Item	Description
Feature name	LICMGR
Table name	ControlTargets
Table type	Multi-instance table
Row name	Target
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	ID of intercepted target	Index	Unsigned integer.
Type	Type of information that identifies the target	N/A	Enumeration: • 1—IP. • 2—IP_SUBNET. • 7—IP_PORT • 8—VRF. • 9—VRF_PORT.
TargetIP	Target IPv4 address	N/A	String, dotted decimal notation.
TargetIPv6	Target IPv6 address	N/A	String, hexadecimal notation.
TargetMask	Target subnet mask	N/A	String, dotted decimal notation.
TargetMaskSubnet	Target subnet mask length	N/A	Unsigned integer.
TargetPort	Target port	N/A	Unsigned integer.
TargetVRF	Target VRF	N/A	String.
TargetVRFPort	Target VRF and port	N/A	Unsigned integer.
VisitedIP	Visited IPv4 address	N/A	String, dotted decimal notation.
VisitedIPv6	Visited IPv6 address	N/A	String, hexadecimal notation.
VisitedMask	Subnet mask of the visited IP address	N/A	String, dotted decimal notation.
VisitedMaskSubnet	Subnet mask length of the visited IP address	N/A	Unsigned integer.
VisitedPort	Visited port	N/A	Unsigned integer.
TransportPro	Transport protocol	N/A	Enumeration: • 1—All. • 2—TCP. • 3—UDP.
ApplicationType	Application type	N/A	Unsigned integer.

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Resource Summary for LICMGR

Resource (Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
LICMGR	/api/v1/LICMGR/Switch	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/INEID	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/LICID	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/Bandwidth	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/Key	Y	Y	Y	Y
LICMGR	/api/v1/LICMGR/X1Timer	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/X2Timer	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/X3Timer	Y	Y	Y	Y
LICMGR	/api/v1/LICMGR/X3Service	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/X1Connecti on	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/X2Connecti on	Y	N	Y	Y
LICMGR	/api/v1/LICMGR/X3Connecti on	Y	Y	Y	Y
LICMGR	/api/v1/LICMGR/PacketsStati stics	Y	N	N	N
LICMGR	/api/v1/LICMGR/X3PacketsS tatistics	Y	N	N	N
LICMGR	/api/v1/LICMGR/IntervalStati stics	Y	N	N	N
LICMGR	/api/v1/LICMGR/ControlTarg ets	Y	N	N	N

LICMGR

Switch

This table contains state information about the lawful interception feature.

Properties

Column name	Column description	Column type	Data type and restrictions
Switch	State of the lawful interception feature	N/A	Boolean: true—Enabled. false—Disabled.

Example

Example 1: Get lawful interception state information.

JSON Request

GET /api/v1/LICMGR/Switch

JSON Response

200 OK

```
{  
  "Switch" : "false"  
}
```

Example 2: Enable the lawful interception feature.

JSON Request

PUT /api/v1/LICMGR/Switch

```
{  
  "Switch" : "true"  
}
```

JSON Response

204 No Content

Example 3: Delete lawful interception state information.

JSON Request

DELETE /api/v1/LICMGR/Switch

JSON Response

204 No Content

INEID

This table contains the INE ID.

Properties

Column name	Column description	Column type	Data type and restrictions
ID	INE ID	N/A	String, case sensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 32 characters.

Example

Example 1: Get the INE ID.

JSON Request

GET /api/v1/LICMGR/INEID

JSON Response

200 OK

```
{
  "ID" : "aaaa"
}
```

Example 2: Modify the INE ID.

JSON Request

PUT /api/v1/LICMGR/INEID

```
{
  "ID" : "cccc"
}
```

JSON Response

204 No Content

Example 3: Delete the INE ID.

JSON Request

DELETE /api/v1/LICMGR/INEID

JSON Response

204 No Content

LICID

This table contains the LIC ID.

Properties

Column name	Column description	Column type	Data type and restrictions
ID	LIC ID	N/A	String, case sensitive. Length: 1 to 32 characters.

Example

Example 1: Get the LIC ID.

JSON Request

GET /api/v1/LICMGR/LICID

JSON Response

200 OK

```
{  
  "ID" : "aaaa"  
}
```

Example 2: Modify the LIC ID.

JSON Request

PUT /api/v1/LICMGR/LICID

```
{  
  "ID" : "cccc"  
}
```

JSON Response

204 No Content

Example 3: Delete the LIC ID.

JSON Request

DELETE /api/v1/LICMGR/LICID

JSON Response

204 No Content

Bandwidth

This table contains X3 interface bandwidth information.

Properties

Column name	Column description	Column type	Data type and restrictions
Bandwidth	X3 interface bandwidth	N/A	Unsigned integer. Value range: 8 to 1000000, in kbps.

Example

Example 1: Get the X3 interface bandwidth.

JSON Request

GET /api/v1/LICMGR/Bandwidth

JSON Response

200 OK

```
{  
  "Bandwidth" : "1000"  
}
```

Example 2: Modify the X3 interface bandwidth.

JSON Request

PUT /api/v1/LICMGR/Bandwidth

```
{  
  "Bandwidth" : "200"  
}
```

JSON Response

204 No Content

Example 3: Delete X3 interface bandwidth information.

JSON Request

DELETE /api/v1/LICMGR/Bandwidth

JSON Response

Key

This table contains lawful interception key information.

Properties

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • 1—X1. • 2—X2.
KI	Key ID	N/A	String, case sensitive. Length: 16 characters.
KIConfig	Whether the key ID is configured	N/A	Enumeration: • true—Key ID is configured. • false—Key ID is not configured.
Password	Password	N/A	String, case sensitive. Length: 16 characters.
PasswordConfig	Whether the password is configured	N/A	Boolean: • true—Password is configured. • false—Password is not configured.
SqnGroup	Sequence number group	N/A	Unsigned integer. Value range: 2 to 4294967295.

Example

Example 1: Get lawful interception key information.

JSON Request

```
GET /api/v1/LICMGR/Key
```

JSON Response

200 OK

```
{
  "Type" : "1"
  "KI" : "1234567890123456"
  "Password" : "1234567890123456"
  "SqnGroup" : "2"
}
```

Example 2: Set the X1 key.

JSON Request

POST /api/v1/LICMGR/Key

```
{  
  "Type" : "1"  
  "KI" : "1234567890123456"  
  "Password" : "1234567890123456"  
  "SqnGroup" : "2"  
}
```

JSON Response

201 Created

Example 3: Modify the X1 key.

JSON Request

PUT /api/v1/LICMGR/Key

```
{  
  "Type" : "1"  
  "KI" : "1234567890123457"  
  "Password" : "1234567890123457"  
  "SqnGroup" : "3"  
}
```

JSON Response

204 No Content

Example 4: Delete the X1 key.

JSON Request

DELETE /api/v1/LICMGR/Key?index=Type=1

JSON Response

204 No Content

X1Timer

This table contains information about the X1 no-message timer.

Properties

Column name	Column description	Column type	Data type and restrictions
NoMessage	No-message timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.

Example

Example 1: Get value of the X1 no-message timer.

JSON Request

GET /api/v1/LICMGR/X1Timer

JSON Response

200 OK

```
{  
  "NoMessage" : "180"  
}
```

Example 2: Modify the X1 no-message timer.

JSON Request

PUT /api/v1/LICMGR/X1Timer

```
{  
  "NoMessage" : "200"  
}
```

JSON Response

204 No Content

Example 3: Delete the X1 no-message timer.

JSON Request

DELETE /api/v1/LICMGR/X1Timer

JSON Response

204 No Content

X2Timer

This table contains information about X2 timers.

Properties

Column name	Column description	Column type	Data type and restrictions
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.

Example

Example 1: Get information about X2 timers.

JSON Request

GET /api/v1/LICMGR/X2Timer

JSON Response

200 OK

```
{  
  "KeepAlive" : "180"  
  "Normal" : "30"  
}
```

Example 2: Modify X2 timers.

JSON Request

PUT /api/v1/LICMGR/X2Timer

```
{  
  "KeepAlive" : "1000"  
  "Normal" : "20"  
}
```

JSON Response

204 No Content

Example 3: Delete X2 timers.

JSON Request

DELETE /api/v1/LICMGR/X2Timer

JSON Response

204 No Content

X3Timer

This table contains information about X3 timers.

Properties

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
KeepAlive	Keepalive timer	N/A	Unsigned integer. Value range: 180 to 1000, in seconds.
Normal	Normal timer	N/A	Unsigned integer. Value range: 1 to 30, in seconds.
Retry	Retry timer	N/A	Unsigned integer. Value range: 1 to 1000, in seconds.

Example

Example 1: Get information about X3 timers.

JSON Request

GET /api/v1/LICMGR/X3Timer

JSON Response

200 OK

```
{  
  "ConnectionID" : "0"  
  "KeepAlive" : "180"  
  "Normal" : "30"  
  "Retry" : "180"  
}
```

Example 2: Set X3 timers.

JSON Request

POST /api/v1/LICMGR/X3Timer

```
{  
  "ConnectionID" : "0"  
  "KeepAlive" : "280"  
  "Normal" : "20"  
  "Retry" : "280"  
}
```

JSON Response

201 Created

Example 3: Modify X3 timers.

JSON Request

PUT /api/v1/LICMGR/X3Timer?index=ConnectionID=0

```
{  
  "ConnectionID" : "0"  
  "KeepAlive" : "380"  
  "Normal" : "10"  
  "Retry" : "380"  
}
```

JSON Response

204 No Content

Example 4: Delete X3 timers.

JSON Request

DELETE /api/v1/LICMGR/X3Timer?index=ConnectionID=0

JSON Response

204 No Content

X3Service

This table contains X3 service chassis and slot information.

Properties

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65534.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65534.

Example

Example 1: Get X3 service chassis and slot information.

JSON Request

GET /api/v1/LICMGR/X3Service

JSON Response

200 OK

```
{  
  "Chassis" : "0"  
  "Slot" : "1"  
}
```

Example 2: Modify the X3 service chassis and slot.

JSON Request

PUT /api/v1/LICMGR/X3Service

```
{  
  "Chassis" : "0"  
  "Slot" : "2"  
}
```

JSON Response

204 No Content

Example 3: Delete X3 service chassis and slot information.

JSON Request

DELETE /api/v1/LICMGR/X3Service

JSON Response

X1Connection

This table contains information about the X1 connection.

Properties

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

Example

Example 1: Get information about the X1 connection.

JSON Request

GET /api/v1/LICMGR/X1Connection

JSON Response

200 OK

```
{
  "LICIPAddress" : "1.1.1.1"
  "LocalIPAddress" : "1.1.1.2"
  "LocalPort" : "123"
}
```

Example 2: Modify the X1 connection.

JSON Request

PUT /api/v1/LICMGR/X1Connection

```
{
  "LICIPAddress" : "1.1.1.2"
  "LocalIPAddress" : "1.1.1.3"
  "LocalPort" : "1234"
}
```

JSON Response

204 No Content

Example 3: Delete the X1 connection.

JSON Request

DELETE /api/v1/LICMGR/X1Connection

JSON Response

204 No Content

X2Connection

This table contains information about the X2 connection.

Properties

Column name	Column description	Column type	Data type and restrictions
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.
LocalIPv6Addresses	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

Example

Example 1: Get information about the X2 connection.

JSON Request

GET /api/v1/LICMGR/X2Connection

JSON Response

200 OK

```
{  
  "LICIPAddress" : "1.1.1.1"  
  "LICPort" : "321"  
  "LocalIPAddress" : "1.1.1.2"
```

```
"LocalPort" : "123"
}
```

Example 2: Modify the X2 connection.

JSON Request

PUT /api/v1/LICMGR/X2Connection

```
{
  "LICIPAddress" : "1.1.1.1"
  "LICPort" : "321"
  "LocalIPAddress" : "1.1.1.2"
  "LocalPort" : "123"
}
```

JSON Response

204 No Content

Example 3: Delete the X2 connection.

JSON Request

DELETE /api/v1/LICMGR/X2Connection

JSON Response

204 No Content

X3Connection

This table contains information about X3 connections.

Properties

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
LICIPAddress	LIC IPv4 address	N/A	String, dotted decimal notation.
LICIPv6Address	LIC IPv6 address	N/A	String, hexadecimal notation.
LICPort	LIC port	N/A	Unsigned integer. Value range: 1 to 65535.
LocalIPAddress	Local IPv4 address	N/A	String, dotted decimal notation.

Column name	Column description	Column type	Data type and restrictions
LocalIPv6Addresses	Local IPv6 address	N/A	String, hexadecimal notation.
LocalPort	Local port	N/A	Unsigned integer. Value range: 1 to 65535.

Example

Example 1: Get information about X3 connections.

JSON Request

GET /api/v1/LICMGR/X3Connection

JSON Response

200 OK

```
{
  "ConnectionID" : "0"
  "LICIPAddress" : "1.1.1.1"
  "LICPort" : "321"
  "LocalIPAddress" : "1.1.1.2"
  "LocalPort" : "123"
}
```

Example 2: Set up an X3 connection.

JSON Request

POST /api/v1/LICMGR/X3Connection

```
{
  "ConnectionID" : "0"
  "LICIPAddress" : "1.1.1.1"
  "LICPort" : "321"
  "LocalIPAddress" : "1.1.1.2"
  "LocalPort" : "123"
}
```

JSON Response

201 Created

Example 3: Modify an X3 connection.

JSON Request

PUT /api/v1/LICMGR/X3Connection?index=ConnectionID=0

```
{
  "ConnectionID" : "0"
  "LICIPAddress" : "1.1.1.1"
  "LICPort" : "321"
  "LocalIPAddress" : "1.1.1.2"
  "LocalPort" : "123"
}
```

JSON Response

204 No Content

Example 4: Delete X3 connections.

JSON Request

DELETE /api/v1/LICMGR/X3Connection?index=ConnectionID=0

JSON Response

204 No Content

PacketsStatistics

This table contains lawful interception packet statistics.

Properties

Column name	Column description	Column type	Data type and restrictions
Type	Interface type	Index	Enumeration: • 1—X1. • 2—X2. • 3—X3.
PacketIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
PacketOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Example

Example 1: Get lawful interception packet statistics.

JSON Request

GET /api/v1/LICMGR/PacketsStatistics

JSON Response

200 OK

```
{
  "Type" : "1"
  "PacketIn" : "100"
  "PacketOut" : "100"
  "ByteIn" : "100"
  "ByteOut" : "100"
}
```

X3PacketsStatistics

This table contains X3 packet statistics.

Properties

Column name	Column description	Column type	Data type and restrictions
ConnectionID	X3 connection ID	Index	Unsigned integer. Value range: 0 to 15.
PacketIn	Incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
PacketOut	Outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteIn	Incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
ByteOut	Outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
Count	LIC channel creation count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
SuccessCount	LIC channel creation success count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Example

Example 1: Get X3 packet statistics.

JSON Request

GET /api/v1/LICMGR/X3PacketsStatistics

JSON Response

200 OK

```
{
  "ConnectionID" : "1"
  "PacketIn" : "100"
  "PacketOut" : "100"
  "ByteIn" : "100"
  "ByteOut" : "100"
  "Count" : "1"
  "SuccessCount" : "1"
}
```

IntervalStatistics

This table contains periodically collected packet statistics.

Properties

Column name	Column description	Column type	Data type and restrictions
ID	Sequence number of a statistics collection interval	Index	Unsigned integer.
X1PacketIn	X1 incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1PacketOut	X1 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1ByteIn	X1 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X1ByteOut	X1 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2PacketIn	X2 incoming packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2PacketOut	X2 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2ByteIn	X2 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X2ByteOut	X2 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3PacketIn	X3 incoming packet	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	count		Value range: 0 to $2^{64} - 1$.
X3PacketOut	X3 outgoing packet count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3ByteIn	X3 incoming byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
X3ByteOut	X3 outgoing byte count	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
Time	Time when the statistics were collected	N/A	String.

Example

Example 1: Get periodically collected packet statistics.

JSON Request

GET /api/v1/LICMGR/IntervalStatistics

JSON Response

200 OK

```
{
  "ID" : "1"
  "X1PacketIn" : "100"
  "X1PacketOut" : "100"
  "X1ByteIn" : "100"
  "X1ByteOut" : "100"
  "X2PacketIn" : "100"
  "X2PacketOut" : "100"
  "X2ByteIn" : "100"
  "X2ByteOut" : "100"
  "X3PacketIn" : "100"
  "X3PacketOut" : "100"
  "X3ByteIn" : "100"
  "X3ByteOut" : "100"
  "Time" : "2017-07-14 16:30:00"
}
```

ControlTargets

This table contains target information.

Properties

Column name	Column description	Column type	Data type and restrictions
ID	ID of intercepted target	Index	Unsigned integer.
Type	Type of information that identifies the target	N/A	Enumeration: • 1—IP. • 2—IP_SUBNET. • 7—IP_PORT • 8—VRF. • 9—VRF_PORT.
TargetIP	Target IPv4 address	N/A	String, dotted decimal notation.
TargetIPv6	Target IPv6 address	N/A	String, hexadecimal notation.
TargetMask	Target subnet mask	N/A	String, dotted decimal notation.
TargetMaskSubnet	Target subnet mask length	N/A	Unsigned integer.
TargetPort	Target port	N/A	Unsigned integer.
TargetVRF	Target VRF	N/A	String.
TargetVRFPort	Target VRF and port	N/A	Unsigned integer.
VisitedIP	Visited IPv4 address	N/A	String, dotted decimal notation.
VisitedIPv6	Visited IPv6 address	N/A	String, hexadecimal notation.
VisitedMask	Subnet mask of the visited IP address	N/A	String, dotted decimal notation.
VisitedMaskSubnet	Subnet mask length of the visited IP address	N/A	Unsigned integer.
VisitedPort	Visited port	N/A	Unsigned integer.
TransportPro	Transport protocol	N/A	Enumeration: • 1—All. • 2—TCP. • 3—UDP.
ApplicationType	Application type	N/A	Unsigned integer.

Example

Example 1: Get target information.

JSON Request

GET /api/v1/LICMGR/ControlTargets

JSON Response

200 OK

```
{
  "ID" : "1"
```

```
"Type" : "1"  
"TargetIP" : "1.1.1.1"  
"VisitedIP" : "1.1.1.2"  
"TransportPro" : "1"  
" ApplicationType " : "1"  
}
```

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LLDP

LLDP/GlobalStatus

This table contains LLDP global status information.

XML structure

```
<LLDP>
  <GlobalStatus>
    <Enable></Enable>
    <CDP></CDP>
    <TxInterval></TxInterval>
    <FastInterval></FastInterval>
    <ReInitDelay></ReInitDelay>
    <NotifyInterval></NotifyInterval>
    <Mode></Mode>
    <MaxCredit></MaxCredit>
    <HoldMult></HoldMult>
    <FastCount></FastCount>
  </GlobalStatus>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable LLDP globally.	N/A	Boolean: true—Enable. false—Disable.

Column name	Column description	Column type	Data type and restrictions
CDP	Whether to enable CDP.	N/A	Boolean: true—Enable. false—Disable.
TxInterval	Transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 5 to 32768. Unit: second.
FastInterval	Fast transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 3600. Unit: second.
ReInitDelay	Re-initialization delay.	N/A	Unsigned integer. Value range: 1 to 10. Unit: second.
NotifyInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.
Mode	Bridge mode.	N/A	Enumeration: 0—Customer bridge mode. 1—Service bridge mode.
MaxCredit	Token bucket size for sending LLDP frames.	N/A	Unsigned integer. Value range: 1 to 100.
HoldMult	TTL multiplier.	N/A	Unsigned integer. Value range: 2 to 10.
FastCount	Number of LLDP frames transmitted within a fast transmission interval.	N/A	Unsigned integer. Value range: 1 to 8.

LLDP/Interfaces

This table contains LLDP interface information.

XML structure

```

<LLDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <CDP></CDP>
      <MEDTopoChange></MEDTopoChange>
    </Interface>
  </Interfaces>
</LLDP>

```


Table description

Item	Description
Feature name	LLDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
Enable	Whether to enable the interface.	N/A	Boolean: true—Enable. false—Disable.	
CDP	Whether to enable CDP compatibility.	N/A	Boolean: true—Enable. CDP packets can be transmitted and received. false—Disable.	
MEDTopoChange	Whether to enable LLDP-MED trapping.	N/A	Boolean: true—Enable. false—Disable.	

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>

Value	Operation status	Remarks
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>

LLDP/IfAgents

This table contains LLDP interface agent information.

XML structure

```

<LLDP>
  <IfAgents>
    <IfAgent>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <AdminStatus>
        <Tx></Tx>
        <Rx></Rx>
      </AdminStatus>
      <CheckChangeInterval></CheckChangeInterval>
      <Encap></Encap>
      <AddressFormat></AddressFormat>
      <RemoteChange></RemoteChange>
    </IfAgent>
  </IfAgents>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	IfAgents
Table type	Multi-instance table
Row name	IfAgent
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
AgentID	LLDP agent ID.	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: • Tx. • Rx.
Tx	Whether to enable the LLDP agent to only send LLDP frames.	N/A	Boolean: • true—Enable. • false—Disable.
Rx	Whether to enable the LLDP agent to only receive LLDP frames.	N/A	Boolean: • true—Enable. • false—Disable.
CheckChangeInterval	LLDP polling interval.	N/A	Unsigned integer. Value range: 1 to 30. Unit: second.
Encap	LLDP frame format.	N/A	Enumeration: • 0—Ethernet II encapsulation. • 1—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: • 0—Number. • 1—String.
RemoteChange	Whether to enable LLDP trapping.	N/A	Boolean: • true—Enable. • false—Disable.

LLDP/TLVSelects

This table contains LLDP TLV transmitting status information.

XML structure

```

<LLDP>
  <TLVSelects>
    <TLV>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <PortDesc></PortDesc>
      <SysName></SysName>
      <SysDesc></SysDesc>
      <SysCap></SysCap>
      <ManageAddress>
        <SubType></SubType>
        <Address></Address>

```

```

        <Enable></Enable>
    </ManageAddress>
    <PVID></PVID>
    <ProtocolVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
    </ProtocolVLAN>
    <VLANName>
        <VLANID></VLANID>
        <Enable></Enable>
    </VLANName>
    <DCBX></DCBX>
    <LinkAgg></LinkAgg>
    <ManageVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
    </ManageVLAN>
    <EVB></EVB>
    <QCN></QCN>
    <MACPHY></MACPHY>
    <Power></Power>
    <MaxFrame></MaxFrame>
    <MEDCapability></MEDCapability>
    <NetworkPolicy></NetworkPolicy>
    <ExtPower></ExtPower>
    <Inventory></Inventory>
</TLV>
</TLVSelects>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	TLVSelects
Table type	Multi-instance table
Row name	TLV
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer.
AgentID	LLDP agent ID.	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
PortDesc	Whether to transmit port description TLVs.	N/A	Boolean: • true—Yes. • false—No.
SysName	Whether to transmit system name TLVs.	N/A	Boolean: • true—Yes. • false—No.
SysDesc	Whether to transmit system description TLVs.	N/A	Boolean: • true—Yes. • false—No.
SysCap	Whether to transmit system capability TLVs.	N/A	Boolean: • true—Yes. • false—No.
ManageAddress	Management address TLV information.	Data structure	Members include: • SubType. • AddressValue. • Enable.
SubType	SubType of the management address.	N/A	Enumeration: • 1—IPv4. • 2—IPv6.
Address	Management address.	N/A	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
Enable	Whether to transmit management address TLVs.		Boolean: • true—Yes. • false—No.
PVID	Whether to transmit port VLAN ID TLVs.	N/A	Boolean: • true—Yes. • false—No.
ProtocolVLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: • VLANID. • Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to transmit port and protocol VLAN ID TLVs.	N/A	Boolean: true—Yes. false—No.
VLANName	VLAN name TLV information.	Data structure	Members include: - VLANID. - Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit VLAN name TLVs.	N/A	Boolean: true—Yes. false—No.
DCBX	Whether to transmit DCBX TLVs.	N/A	Boolean: true—Yes. false—No.
LinkAgg	Whether to transmit link aggregation TLVs.	N/A	Boolean: true—Yes. false—No.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: - VLANID. - Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit management VLAN TLVs.	N/A	Boolean: true—Yes. false—No.
EVB	Whether to transmit EVB TLVs.	N/A	Boolean: true—Yes. false—No.
QCN	Whether to transmit QCN TLVs.	N/A	Boolean: true—Yes. false—No.
MACPHY	Whether to transmit MAC/PHY configuration/status TLVs.	N/A	Boolean: true—Yes. false—No.
Power	Whether to transmit power via MDI TLVs.	N/A	Boolean: true—Yes. false—No.
MaxFrame	Whether to transmit max frame size TLVs.	N/A	Boolean: true—Yes. false—No.
MEDCapability	Whether to transmit MED capability TLVs.	N/A	Boolean: true—Yes. false—No.

Column name	Column description	Column type	Data type and restrictions
NetworkPolicy	Whether to transmit network policy TLVs.	N/A	Boolean: true—Yes. false—No.
ExtPower	Whether to transmit extended power via MDI TLVs.	N/A	Boolean: true—Yes. false—No.
Inventory	Whether to transmit inventory TLVs.	N/A	Boolean: true—Yes. false—No.

LLDP/ELINumbers

This table contains information about LLDP emergency location identification numbers.

XML structure

```

<LLDP>
  <ELINumbers>
    <ELIN>
      <IfIndex></IfIndex>
      <ELINumber></ELINumber>
      <Enable></Enable>
    </ELIN>
  </ELINumbers>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	ELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
ELINumber	Emergency location identification number.	N/A	Numeric String. Length: 10 to 25 characters.	
Enable	Whether to transmit location ID TLVs.	N/A	Boolean: true—Yes. false—No.	

LLDP/CivicAddresses

This table contains information about LLDP civic addresses.

XML structure

```

<LLDP>
  <CivicAddresses>
    <CivicAddress>
      <IfIndex></IfIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>          <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
      <Enable></Enable>
    </CivicAddress>
  </CivicAddresses>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	CivicAddresses
Table type	Multi-instance table
Row name	CivicAddress

Item	Description
Restrictions	The sequence of column attributes must be consistent with the table's definition.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
DeviceType	Device type.	N/A	Enumeration: • 0—DHCP Server. • 1—Network device. • 2—MED endpoint.	
CountryCode	Country code.	N/A	String. Length: 2 characters. Letters in the string should be uppcased.	
CA	Civic address information.	Data structure	Members include: • Type. • Value.	
Type	Civic address type.	N/A	Unsigned integer. Value range: 0 to 255.	
Value	Civic address.	N/A	String. Length: 1 to 250 characters.	
Enable	Whether to transmit location ID TLVs.	N/A	Boolean: • true—Yes. • false—No.	

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LLDP

LLDP/LLDPNeighbors

This table contains LLDP neighbor information.

XML structure

```
<LLDP>
  <LLDPNeighbors>
    <LLDPNeighbor>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <SystemName></SystemName>
      <ChassisId></ChassisId>
      <PortId></PortId>
    </LLDPNeighbor>
  </LLDPNeighbors>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LLDPNeighbors
Table type	Multi-instance table
Row name	LLDPNeighbor
Restrictions	This table supports only Ethernet interfaces that support LLDP.

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
SystemName	System name	N/A	String. Length: 0 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
ChassisId	Chassis name	N/A	String. Length: 0 to 255 characters.
PortId	Neighbor port name	N/A	String. Length: 0 to 255 characters.

LLDP/CDPNeighbors

This table contains CDP neighbor information.

XML structure

```

<LLDP>
  <CDPNeighbors>
    <CDPNeighbor>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <ChassisId></ChassisId>
      <PortId></PortId>
      <ManageAddress></ManageAddress>
      <SoftwareVersion></SoftwareVersion>
      <PlatformVersion></PlatformVersion>
      <Duplex></Duplex>
      <TTL></TTL>
    </CDPNeighbor>
  </CDPNeighbors>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	CDPNeighbors
Table type	Multi-instance table
Row name	CDPNeighbor
Restrictions	This table supports only Ethernet interfaces that support CDP.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.	N/A
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	N/A
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.	N/A
ChassisId	Chassis name	N/A	String. Length: 0 to 255 characters.	N/A
PortId	Port name	N/A	String. Length: 0 to 255 characters.	N/A
ManageAddress	Management address	N/A	String. Length: 0 to 31 characters.	Only IPv4 addresses are supported.
SoftwareVersion	Software version	N/A	String. Length: 0 to 255 characters.	N/A
PlatformVersion	Platform version	N/A	String. Length: 0 to 255 characters.	N/A
Duplex	Duplex type	N/A	Unsigned integer. Length: 8 bits. Enumeration: • 0—Half duplex. • 1—Full duplex. • Others—Unknown.	N/A
TTL	Time to live	N/A	Unsigned integer. Length: 8 bits.	N/A

LLDP/GlobalStatus

This table contains LLDP global status information.

XML structure

```

<LLDP>
  <GlobalStatus>
    <Enable></Enable>
    <CDP></CDP>
    <TxInterval></TxInterval>
  </GlobalStatus>
</LLDP>

```

```

<FastInterval></FastInterval>
<ReInitDelay></ReInitDelay>
<NotifyInterval></NotifyInterval>
<Mode></Mode>
<MaxCredit></MaxCredit>
<HoldMult></HoldMult>
<FastCount></FastCount>
<ChassisID>
  <SubType></SubType>
  <ID></ID>
</ChassisID>
<SystemName></SystemName>
<SystemDesc></SystemDesc>
<DeviceClass></DeviceClass>
</GlobalStatus>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatus
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether LLDP is enabled globally.	N/A	Boolean: true—Enabled. false—Disabled.
CDP	Whether CDP is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
TxInterval	Transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 5 to 32768. Unit: second.
FastInterval	Fast transmission interval for LLDP frames.	N/A	Unsigned integer. Value range: 1 to 3600. Unit: second.

Column name	Column description	Column type	Data type and restrictions
ReInitDelay	Re-initialization delay.	N/A	Unsigned integer. Value range: 1 to 10. Unit: second.
NoifyInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.
Mode	Bridge mode.	N/A	Enumeration: 0—Customer bridge mode. 1—Service bridge mode.
MaxCredit	Token bucket size for sending LLDP frames.	N/A	Unsigned integer. Value range: 1 to 100.
HoldMult	TTL multiplier.	N/A	Unsigned integer. Value range: 2 to 10.
FastCount	Number of fast transmitted LLDP frames.	N/A	Unsigned integer. Value range: 1 to 8.
ChassisID	Chassis identifier information.	Data structure	Members include: - SubType. - ID.
SubType	Chassis ID subtype.	N/A	Enumeration: 0—Reserved. 1—Chassis component. 2—Interface alias. 3—Port component. 4—MAC address. 5—Network address. 6—Interface name. 7—Locally assigned.
ID	Chassis ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the chassis ID subtype.
SystemName	System name.	N/A	String. Length: 0 to 255 characters.
SystemDesc	System description.	N/A	String. Length: 0 to 255 characters.
DeviceClass	MED device class.	N/A	Enumeration: 1—Class I. 2—Class II. 3—Class III. 4—Connectivity device.

LLDP/SysCaps

This table contains LLDP system capability information.

XML structure

```
<LLDP>
  <SysCaps>
    <Support>
      <Other></Other>
      <Repeater></Repeater>
      <Bridge></Bridge>
      <WLANAccessPoint></WLANAccessPoint>
      <Router></Router>
      <Telephone></Telephone>
      <DocsisCableDevice></DocsisCableDevice>
      <StationOnly></StationOnly>
      <CustomerBridge></CustomerBridge>
      <ServiceBridge></ServiceBridge>
      <TPMR></TPMR>
    </Support>
    <Enable>
      <Other></Other>
      <Repeater></Repeater>
      <Bridge></Bridge>
      <WLANAccessPoint></WLANAccessPoint>
      <Router></Router>
      <Telephone></Telephone>
      <DocsisCableDevice></DocsisCableDevice>
      <StationOnly></StationOnly>
      <CustomerBridge></CustomerBridge>
      <ServiceBridge></ServiceBridge>
      <TPMR></TPMR>
    </Enable>
  </SysCaps>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	SysCaps
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Support	Supported capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.
Other	Whether capabilities out of the list are supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Bridge	Whether bridge is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Router	Whether router is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: • true—Supported. • false—Not supported.

Column name	Column description	Column type	Data type and restrictions
TPMR	Whether TPMR is supported.	N/A	Boolean: true—Supported. false—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: - Other. - Repeater. - Bridge. - WlanAccessPoint. - Router. - Telephone. - DocsisCableDevice. - StationOnly. - Customer Bridge. - Service Bridge. - TPMR.

LLDP/Inventory

This table contains LLDP inventory information.

XML structure

```

<LLDP>
  <Inventory>
    <HardwareRev></HardwareRev>
    <FirmwareRev></FirmwareRev>
    <SoftwareRev></SoftwareRev>
    <SerialNum></SerialNum>
    <Manufacturer></Manufacturer>
    <ModelName></ModelName>
    <AssetID></AssetID>
  </Inventory>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	Inventory
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
HardwareRev	Hardware revision	N/A	String. Length: 0 to 255 characters.
FirmwareRev	Firmware revision	N/A	String. Length: 0 to 255 characters.
SoftwareRev	Software revision	N/A	String. Length: 0 to 255 characters.
SerialNum	Serial number	N/A	String. Length: 0 to 255 characters.
Manufacturer	Manufacturer name	N/A	String. Length: 0 to 255 characters.
ModelName	Model name	N/A	String. Length: 0 to 255 characters.
AssetID	Asset identifier	N/A	String. Length: 0 to 255 characters.

LLDP/GlobalStatistics

This table contains LLDP global statistics information.

XML structure

```
<LLDP>
  <GlobalStatistics>
    <LastUpdate></LastUpdate>
    <NbAdd></NbAdd>
    <NbDelete></NbDelete>
    <NbDrop></NbDrop>
    <NbAged></NbAged>
  </GlobalStatistics>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	GlobalStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LastUpdate	Time when the most recent neighbor was updated	N/A	Unsigned integer. Length: 32 bits. Unit: second.
NbAdd	Total number of added neighbors	N/A	Unsigned integer. Length: 32 bits.
NbDelete	Total number of deleted neighbors	N/A	Unsigned integer. Length: 32 bits.
NbDrop	Total number of dropped neighbors	N/A	Unsigned integer. Length: 32 bits.
NbAged	Total number of aged-out neighbors	N/A	Unsigned integer. Length: 32 bits.

LLDP/Interfaces

This table contains LLDP interface information.

XML structure

```
<LLDP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <CDP></CDP>
      <MEDTopoChange></MEDTopoChange>
    </Interface>
  </Interfaces>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
Enable	Whether the interface is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
CDP	Whether CDP compatibility is enabled.	N/A	Boolean: • true—Enabled. CDP packets can be transmitted and received. • false—Disabled.
MEDTopoChange	Whether LLDP-MED trapping is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.

LLDP/IfAgents

This table contains LLDP interface agent information.

XML structure

```
<LLDP>
  <IfAgents>
    <IfAgent>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <AdminStatus>
        <Tx></Tx>
        <Rx></Rx>
      </AdminStatus>
      <CheckChangeInterval></CheckChangeInterval>
      <Encap></Encap>
      <AddressFormat></AddressFormat>
      <RemoteChange></RemoteChange>
      <LLDPNbNum></LLDPNbNum>
      <CDPNbNum></CDPNbNum>
      <MEDNbNum></MEDNbNum>
      <OptionalTLVNum></OptionalTLVNum>
      <UnknownTLVNum></UnknownTLVNum>
    </IfAgent>
  </IfAgents>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	IfAgents
Table type	Multi-instance table
Row name	IfAgent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: • Tx. • Rx.
Tx	Whether an LLDP interface agent can only send LLDP frames.	N/A	Boolean: • true—Yes. • false—No.
Rx	Whether an LLDP interface agent can only receive LLDP frames.	N/A	Boolean: • true—Yes. • false—No.
CheckChangeInterval	LLDP polling interval.	N/A	Unsigned integer. Value range: 0 to 30. Unit: second.
Encap	LLDP frame format.	N/A	Enumeration: • 0—Ethernet II encapsulation. • 1—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: • 0—Number. • 1—String.
RemoteChange	Whether LLDP trapping is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
LLDPNbNum	Total number of LLDP neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
CDPNbNum	Total number of CDP neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.
MEDNbNum	Total number of MED neighbors on the interface.	N/A	Unsigned integer. Length: 32 bits.
OptionalTLVNum	Total number of optional TLVs in the most recently transmitted LLDP frame.	N/A	Unsigned integer. Length: 32 bits.
UnknownTLVNum	Total number of unknown TLVs received in all LLDP frames.		Unsigned integer. Length: 32 bits.

LLDP/TLVSelects

This table contains LLDP TLV transmitting status information.

XML structure

```

<LLDP>
  <TLVSelects>
    <TLV>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <PortDesc></PortDesc>
      <SysName></SysName>
      <SysDesc></SysDesc>
      <SysCap></SysCap>
      <ManageAddress>
        <SubType></SubType>
        <Address></Address>
        <Enable></Enable>
      </ManageAddress>
      <PVID></PVID>
      <ProtocolVLAN>
        <VLANID></VLANID>
        <Enable></Enable>
      </ProtocolVLAN>
      <VLANName>
        <VLANID></VLANID>
        <Enable></Enable>
      </VLANName>
      <DCBX></DCBX>
      <LinkAgg></LinkAgg>
    </TLV>
  </TLVSelects>
</LLDP>

```

```

<ManageVLAN>
  <VLANID></VLANID>
  <Enable></Enable>
</ManageVLAN>
<EVB></EVB>
<QCN></QCN>
<MACPHY></MACPHY>
<Power></Power>
<MaxFrame></MaxFrame>
<MEDCapability></MEDCapability>
<NetworkPolicy></NetworkPolicy>
<ExtPower></ExtPower>
<Inventory></Inventory>
</TLV>
</TLVSelects>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	TLVSelects
Table type	Multi-instance table
Row name	TLV
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
PortDesc	Whether the transmission of port description TLVs is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
SysName	Whether the transmission of system name TLVs is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.

Column name	Column description	Column type	Data type and restrictions
SysDesc	Whether the transmission of system description TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
SysCap	Whether the transmission of system capability TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
ManageAddress	Management address TLV information.	Data structure	Members include: - SubType. - AddressValue. - Enable.
SubType	Subtype of the management address.	N/A	Enumeration: 1—IPv4. 2—IPv6.
Address	Management address.	N/A	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
Enable	Whether the transmission of management address TLVs is enabled.		Boolean: true—Enabled. false—Disabled.
PVID	Whether the transmission of port VLAN ID TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
ProtocolVLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: - VLANID. - Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of port and protocol VLAN ID TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
VLANName	VLAN name TLV information.	Data structure	Members include: - VLANID. - Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of VLAN name TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.

Column name	Column description	Column type	Data type and restrictions
DCBX	Whether the transmission of DCBX TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
LinkAgg	Whether the transmission of link aggregation TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: - VLANID. - Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether the transmission of management VLAN TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
EVB	Whether the transmission of EVB TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
QCN	Whether the transmission of QCN TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
MACPHY	Whether the transmission of MAC/PHY configuration/status TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
Power	Whether the transmission of power via MDI TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
MaxFrame	Whether the transmission of max frame size TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
MEDCapability	Whether the transmission of MED capability TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
NetworkPolicy	Whether the transmission of network policy TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
ExtPower	Whether the transmission of extended power via MDI TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.

Column name	Column description	Column type	Data type and restrictions
Inventory	Whether the transmission of inventory TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.

LLDP/ELINumbers

This table contains information about LLDP emergency location identification numbers.

XML structure

```

<LLDP>
  <ELINumbers>
    <ELIN>
      <IfIndex></IfIndex>
      <ELINumber></ELINumber>
      <Enable></Enable>
    </ELIN>
  </ELINumbers>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	ELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
ELINumber	Emergency location identification number.	N/A	Numeric String. Length: 10 to 25 characters.
Enable	Whether the transmission of location ID TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.

LLDP/CivicAddresses

This table contains LLDP civic address information.

XML structure

```
<LLDP>
  <CivicAddresses>
    <CivicAddress>
      <IfIndex></IfIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>          <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
      <Enable></Enable>
    </CivicAddress>
  </CivicAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	CivicAddresses
Table type	Multi-instance table
Row name	CivicAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
DeviceType	Device type.	N/A	Enumeration: • 0—DHCP Server. • 1—Network device. • 2—MED endpoint.
CountryCode	Country code.	N/A	String. Length: 2 characters. Letters in the string should be uppercased.

Column name	Column description	Column type	Data type and restrictions
CA	Civic address information.	Data structure	Members include: - Type. - Value.
Type	Civic address type.	N/A	Unsigned integer. Value range: 0 to 255.
Value	Civic address.	N/A	String. Length: 0 to 250 characters.
Enable	Whether the transmission of location ID TLVs is enabled.	N/A	Boolean: true—Enabled. false—Disabled.

LLDP/IfStatistics

This table contains LLDP interface statistics information.

XML structure

```

<LLDP>
  <IfStatistics>
    <Stats>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <TxFrameNum></TxFrameNum>
      <RxFrameNum></RxFrameNum>
      <DiscardFrameNum></DiscardFrameNum>
      <ErrorFrameNum></ErrorFrameNum>
      <DiscardTLVNum></DiscardTLVNum>
      <UnknownTLVNum></UnknownTLVNum>
      <AgedNbNum></AgedNbNum>
      <TxCDPFrameNum></TxCDPFrameNum>
      <RxCDPFrameNum></RxCDPFrameNum>
      <DiscardCDPFrameNum></DiscardCDPFrameNum>
      <ErrorCDPFrameNum></ErrorCDPFrameNum>
    </Stats>
  </IfStatistics>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	IfStatistics
Table type	Multi-instance table

Item	Description
Row name	Stats
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
TxFNum	The number of transmitted LLDP frames	N/A	Unsigned integer. Length: 32 bits.
RxFNum	The number of received LLDP frames	N/A	Unsigned integer. Length: 32 bits.
DiscardFNum	The number of discarded LLDP frames	N/A	Unsigned integer. Length: 32 bits.
ErrorFNum	The number of LLDP error frames	N/A	Unsigned integer. Length: 32 bits.
DiscardTLVNum	The number of discarded LLDP TLVs	N/A	Unsigned integer. Length: 32 bits.
UnknownTLVNum	The number of unknown LLDP TLVs	N/A	Unsigned integer. Length: 32 bits.
AgedNbNum	The number of aged-out LLDP neighbors	N/A	Unsigned integer. Length: 32 bits.
TxCDFNum	The number of transmitted CDP frames	N/A	Unsigned integer. Length: 32 bits.
RxCDFNum	The number of received CDP frames	N/A	Unsigned integer. Length: 32 bits.
DiscardCDFNum	The number of discarded CDP frames	N/A	Unsigned integer. Length: 32 bits.
ErrorCDFNum	The number of CDP error frames	N/A	Unsigned integer. Length: 32 bits.

LLDP/NbBasicInfos

This table contains basic information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbBasicInfos>
    <BasicInfo>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <ChassisID>
        <SubType></SubType>
        <ID></ID>
      </ChassisID>
      <PortID>
        <SubType></SubType>
        <ID></ID>
      </PortID>
      <TTL></TTL>
      <PortDesc></PortDesc>
      <SystemName></SystemName>
      <SystemDesc></SystemDesc>
    </BasicInfo>
  </NbBasicInfos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbBasicInfos
Table type	Multi-instance table
Row name	BasicInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
ChassisID	Chassis identifier information	Data structure	Members include: - SubType. - ID.
SubType	Subtype of the chassis ID	N/A	Enumeration: 0—Reserved. 1—Chassis component. 2—Interface alias. 3—Port component. 4—MAC address. 5—Network address. 6—Interface name. 7—Locally assigned.
ID	Chassis ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the chassis ID subtype.
PortID	Port identifier information	Data structure	Members include: - SubType. - ID.
SubType	Subtype of the port ID	N/A	Enumeration: 0—Reserved. 1—Interface alias. 2—Port component. 3—MAC address. 4—Network address. 5—Interface name. 6—Agent circuit ID. 7—Locally assigned.
ID	Port ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the port ID subtype.
TTL	Time to Live	N/A	Unsigned integer. Length: 32 bits.
PortDesc	Port description	N/A	String. Length: 0 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
SystemName	System name	N/A	String. Length: 0 to 255 characters.
SystemDesc	System description	N/A	String. Length: 0 to 255 characters.

LLDP/NbSysCaps

This table contains information about the system capabilities of LLDP neighbors.

XML structure

```

<LLDP>
  <NbSysCaps>
    <SysCap>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <Support>
        <Other></Other>
        <Repeater></Repeater>
        <Bridge></Bridge>
        <WLANAccessPoint></WLANAccessPoint>
        <Router></Router>
        <Telephone></Telephone>
        <DocsisCableDevice></DocsisCableDevice>
        <StationOnly></StationOnly>
        <CustomerBridge></CustomerBridge>
        <ServiceBridge></ServiceBridge>
        <TPMR></TPMR>
      </Support>
      <Enable>
        <Other></Other>
        <Repeater></Repeater>
        <Bridge></Bridge>
        <WLANAccessPoint></WLANAccessPoint>
        <Router></Router>
        <Telephone></Telephone>
        <DocsisCableDevice></DocsisCableDevice>
        <StationOnly></StationOnly>
        <CustomerBridge></CustomerBridge>
        <ServiceBridge></ServiceBridge>
        <TPMR></TPMR>
      </Enable>
    </SysCap>
  </NbSysCaps>
</LLDP>

```

```
</NbSysCaps>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbSysCaps
Table type	Multi-instance table
Row name	SysCap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
Support	Supported capabilities.	Data structure	Members include: • Other. • Repeater. • Bridge. • WlanAccessPoint. • Router. • Telephone. • DocsisCableDevice. • StationOnly. • Customer Bridge. • Service Bridge. • TPMR.
Other	Whether capabilities out of the list are supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: • true—Supported. • false—Not supported.

Column name	Column description	Column type	Data type and restrictions
Bridge	Whether bridge is supported.	N/A	Boolean: true—Supported. false—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: true—Supported. false—Not supported.
Router	Whether router is supported.	N/A	Boolean: true—Supported. false—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: true—Supported. false—Not supported.
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: true—Supported. false—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: true—Supported. false—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: true—Supported. false—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: true—Supported. false—Not supported.
TPMR	Whether TPMR is supported.	N/A	Boolean: true—Supported. false—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: - Other. - Repeater. - Bridge. - WlanAccessPoint. - Router. - Telephone. - DocsisCableDevice. - StationOnly. - Customer Bridge. - Service Bridge. - TPMR.

LLDP/NbManageAddresses

This table contains information about the management addresses of LLDP neighbors.

XML structure

```
<LLDP>
  <NbManageAddresses>
    <ManageAddress>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <SubType></SubType>
      <Address></Address>
      <InterfaceType></InterfaceType>
      <InterfaceID></InterfaceID>
    </ManageAddress>
  </NbManageAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbManageAddresses
Table type	Multi-instance table
Row name	ManageAddress
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
SubType	Subtype of the management address	Index	Enumeration: • 0—Other. • 1—IPv4. • 2—IPv6. • 3—NSAP. • 4—HDLC. • 5—BBN1822. • 6—All802. • 7—E163. • 8—E164. • 9—F69. • 10—X121. • 11—IPX. • 12—AppleTalk. • 13—DECNetIV. • 14—BanyanVines. • 15—E164WithNSAP. • 16—DNS. • 17—DistinguishedName. • 18—ASNumber. • 19—XTPoverIPv4. • 20—XTPoverIPv6. • 21—XTPNativeModeXTP. • 22—FibreChannelWWPN. • 23—FibreChannelWWNN. • 24—GWID.
Address	Management address	Index	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
InterfaceType	Interface type	N/A	Enumeration: • 1—Unknown. • 2—IfIndex. • 3—PortIndex.
InterfaceID	Interface ID	N/A	Unsigned integer. Length: 32 bits.

LLDP/NbDot1Infos

This table contains the IEEE 802.1 organizationally specific information about LLDP neighbors.

XML structure

```

<LLDP>
  <NbDot1Infos>
    <Dot1Info>

```

```

<TimeMark></TimeMark>
<IfIndex></IfIndex>
<AgentID></AgentID>
<NeighborIndex></NeighborIndex>
<PVID></PVID>
<ManageVLAN></ManageVLAN>
<ProtocolID></ProtocolID> <!-- Repeatable -->
<LinkAgg>
  <Support></Support>
  <Enable></Enable>
  <PortIndex></PortIndex>
</LinkAgg>
<VIDUsage></VIDUsage>
</Dot1Info>
</NbDot1Infos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbDot1Infos
Table type	Multi-instance table
Row name	Dot1Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.	N/A
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.	N/A
AgentID	LLDP agent ID.	Index	Enumeration: 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.	N/A
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.	N/A
PVID	Neighbor interface PVID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ManageVLAN	Management VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
ProtocolID	Protocol ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the protocol.	Repeatable
LinkAgg	Link aggregation information.	Data structure	Members include: • Support. • Enable. • PortIndex.	N/A
Support	Whether link aggregation is supported.	N/A	Boolean: • true—Supported. • false—Not supported.	N/A
Enable	Whether link aggregation is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
PortIndex	Member port ID.	N/A	Unsigned integer. Length: 32 bits.	N/A
VIDUsage	VID usage digest.	N/A	Base64 Binary. Length: 4 octets.	N/A

LLDP/NbProtocolVLANs

This table contains information about the protocol VLANs of LLDP neighbors.

XML structure

```

<LLDP>
  <NbProtocolVLANs>
    <NbProtocolVLAN>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <VLANID></VLANID>
      <Support></Support>
      <Enable></Enable>
    </NbProtocolVLAN>
  </NbProtocolVLANs>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbProtocolVLANs
Table type	Multi-instance table
Row name	NbProtocolVLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID.	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
VLANID	Protocol VLAN ID.	Index	Unsigned integer. Value range: 0 to 4094.
Support	Whether protocol VLAN is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.

LLDP/NbVLANNames

This table contains information about the VLAN names of LLDP neighbors.

XML structure

```
<LLDP>
  <NbVLANNames>
    <NbVLANName>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
```

```

    <AgentID></AgentID>
    <NeighborIndex></NeighborIndex>
    <VLANID></VLANID>
    <VLANName></VLANName>
  </NbVLANName>
</NbVLANNames>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbVLANNames
Table type	Multi-instance table
Row name	NbVLANName
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.
VLANName	VLAN name	N/A	String. Length: 0 to 32 characters.

LLDP/NbDot3Infos

This table contains the IEEE 802.3 organizationally specific information about LLDP neighbors.

XML structure

```
<LLDP>
```

```

<NbDot3Infos>
  <Dot3Info>
    <TimeMark></TimeMark>
    <IfIndex></IfIndex>
    <NeighborIndex></NeighborIndex>
    <MACPHY>
      <AutoNegSupport></AutoNegSupport>
      <AutoNegEnable></AutoNegEnable>
      <MAU></MAU>
    </MACPHY>
    <MaxFrameSize></MaxFrameSize>
    <Power>
      <PortClass></PortClass>
      <Support></Support>
      <Enable></Enable>
      <Pairs></Pairs>
      <PairsCtrlAbility></PairsCtrlAbility>
      <Classification></Classification>
    </Power>
  </Dot3Info>
</NbDot3Infos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbDot3Infos
Table type	Multi-instance table
Row name	Dot3Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
MACPHY	MAC/PHY configuration/status information.	Data structure	Members include: • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
MAU	Operational media attachment unit type.	N/A	Unsigned integer. Length: 32 bits.
MaxFrameSize	Maximum frame size.	N/A	Unsigned integer. Length: 32 bits.
Power	Power over MDI information.	Data structure	Members include: • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: • 0—PD. • 1—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Enable	Whether PSE MDI power is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
Pairs	Power supply mode.	N/A	Enumeration: • 1—Over signal wires. • 2—Over spare wires.
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: • true—Yes. • false—No.
Classification	Power class.	N/A	Enumeration: • 1—Class0. • 2—Class1. • 3—Class2. • 4—Class3. • 5—Class4.

LLDP/NbMEDInfos

This table contains the MED organizationally specific information about LLDP neighbors.

XML structure

```
<LLDP>
  <NbMEDInfos>
    <MEDInfo>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <DeviceClass></DeviceClass>
      <Inventory>
        <HardwareRev></HardwareRev>
        <FirmwareRev></FirmwareRev>
        <SoftwareRev></SoftwareRev>
        <SerialNum></SerialNum>
        <Manufacturer></Manufacturer>
        <ModelName></ModelName>
        <AssetID></AssetID>
      </Inventory>
      <ExtPower>
        <Source></Source>
        <Priority></Priority>
        <Value></Value>
      </ExtPower>
    </MEDInfo>
  </NbMEDInfos>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	NbMEDInfos
Table type	Multi-instance table
Row name	MEDInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
DeviceClass	MED device class	N/A	Enumeration: • 1—Class I. • 2—Class II. • 3—Class III. • 4—Connectivity device.
Inventory	Device inventory information	Data structure	Members include: • HardwareRev. • FirmwareRev. • SoftwareRev. • SerialNum. • Manufacturer. • ModelName. • AssetID.
HardwareRev	Hardware revision	N/A	String. Length: 0 to 255 characters.
FirmwareRev	Firmware revision	N/A	String. Length: 0 to 255 characters.
SoftwareRev	Software revision	N/A	String. Length: 0 to 255 characters.
SerialNum	Serial number	N/A	String. Length: 0 to 255 characters.
Manufacturer	Manufacturer name	N/A	String. Length: 0 to 255 characters.
ModelName	Model name	N/A	String. Length: 0 to 255 characters.
AssetID	Asset ID	N/A	String. Length: 0 to 255 characters.
ExtPower	Extended power via MDI information	Data structure	Members include: • Source. • Priority. • Value.
Source	PSE power source	N/A	Enumeration: • 0—Unknown. • 1—Primary. • 2—Backup.

Column name	Column description	Column type	Data type and restrictions
Priority	Power priority	N/A	Enumeration: 1—Critical. 2—High. 3—Low.
Value	Power value	N/A	Unsigned integer. Length: 32 bits. Unit: milliwatt.

LLDP/NbELINumbers

This table contains information about the MED emergency location identification numbers of LLDP neighbors.

XML structure

```

<LLDP>
  <NbELINumbers>
    <ELIN>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <ELINumber></ELINumber>
    </ELIN>
  </NbELINumbers>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbELINumbers
Table type	Multi-instance table
Row name	ELIN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
ElinNumber	Emergency location identification number	N/A	String. Length: 10 to 25 characters.

LLDP/NbCivicAddresses

This table contains information about the MED civic addresses of LLDP neighbors.

XML structure

```

<LLDP>
  <NbCivicAddresses>
    <CivicAddress>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <DeviceType></DeviceType>
      <CountryCode></CountryCode>
      <CA>  <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </CA>
    </CivicAddress>
  </NbCivicAddresses>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbCivicAddresses
Table type	Multi-instance table
Row name	CivicAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
DeviceType	Device type	N/A	Enumeration: • 0—DHCP Server. • 1—Network device. • 2—MED endpoint.
CountryCode	Country code	N/A	String. Length: 2 characters.
CA	Civic address information	Data structure	Members include: • Type. • Value.
Type	Civic address type	N/A	Unsigned integer. Value range: 0 to 255.
Value	Civic address	N/A	String. Length: 0 to 250 characters.

LLDP/NbNetworkPolicies

This table contains information about the MED network policies of LLDP neighbors.

XML structure

```

<LLDP>
  <NbNetworkPolicies>
    <NetworkPolicy>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <NeighborIndex></NeighborIndex>
      <Application> <!-- Repeatable -->
        <AppType></AppType>
        <UnknownFlag></UnknownFlag>
        <TagFlag></TagFlag>
        <VLANID></VLANID>
        <L2priority></L2priority>
        <DSCP></DSCP>
      </Application>
    </NetworkPolicy>
  
```

```

    </NbNetworkPolicies>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbNetworkPolicies
Table type	Multi-instance table
Row name	NetworkPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark.	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NeighborIndex	Neighbor index.	Index	Unsigned integer. Length: 32 bits.
Application	Application information.	Data structure	Members include: • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: • 1—Voice. • 2—Voice Signaling. • 3—Guest Voice. • 4—Guest Voice Signaling. • 5—Softphone Voice. • 6—Video Conferencing. • 7—Streaming Video. • 8—Video Signaling.
UnknownFlag	Whether the application is unknown.	N/A	Boolean: • true—Yes. • false—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: • true—Yes. • false—No.

Column name	Column description	Column type	Data type and restrictions
VLANID	Network policy VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4095.
L2priority	Layer 2 priority	N/A	Unsigned integer. Value range: 0 to 7.
DSCP	DSCP value.	N/A	Unsigned integer. Value range: 0 to 63.

LLDP/NbUnknownBasicTLVs

This table contains information about the unknown basic TLVs of LLDP neighbors.

XML structure

```

<LLDP>
  <NbUnknownBasicTLVs>
    <UnknownBasicTLV>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <TLV> <!-- Repeatable -->
        <Type></Type>
        <Value></Value>
      </TLV>
    </UnknownBasicTLV>
  </NbUnknownBasicTLVs>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbUnknownBasicTLVs
Table type	Multi-instance table
Row name	UnknownBasicTLV
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
TLV	TLV information	Data structure	Member Include: • Type • Value
Type	TLV type	N/A	Unsigned integer. Length: 8 bits. Value range: 0 to 126.
Value	TLV value	N/A	Base64 Binary. Length: 0 to 511 octets.

LLDP/NbUnknownOrgTLVs

This table contains information about the unknown organizationally specific TLVs of LLDP neighbors.

XML structure

```

<LLDP>
  <NbUnknownOrgTLVs>
    <UnknownOrgTLV>
      <TimeMark></TimeMark>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <NeighborIndex></NeighborIndex>
      <TLV>    <!-- Repeatable -->
        <OUI></OUI>
        <SubType></SubType>
        <Value></Value>
      </TLV>
    </UnknownOrgTLV>
  </NbUnknownOrgTLVs>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	NbUnknownOrgTLVs
Table type	Multi-instance table
Row name	UnknownOrgTLV
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeMark	Time mark	Index	Unsigned integer. Length: 32 bits.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: • 1—Nearest bridge agent. • 2—Nearest non-TPMR agent. • 3—Nearest customer agent.
NeighborIndex	Neighbor index	Index	Unsigned integer. Length: 32 bits.
TLV	TLV information	Data structure	Member Include: • OUI • SubType • Value
OUI	Organizationally unique identifier	N/A	Base64 Binary.
SubType	TLV subtype	N/A	Unsigned integer. Length: 8 bits. Value range: 0 to 255.
Value	TLV value	N/A	Base64 Binary. Length: 0 to 511 octets.

LLDP/LocalBasicInfos

This table contains basic information about local interfaces.

XML structure

```
<LLDP>
  <LocalBasicInfos>
```

```

<BasicInfo>
  <IfIndex></IfIndex>
  <PortID>
    <SubType></SubType>
    <ID></ID>
  </PortID>
  <PortDesc></PortDesc>
</BasicInfo>
</LocalBasicInfos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	LocalBasicInfos
Table type	Multi-instance table
Row name	BasicInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
PortID	Port identifier information	Data structure	Members include: - SubType. - ID.
SubType	Subtype of the port ID	N/A	Enumeration: 0—Reserved. 1—Interface alias. 2—Port component. 3—MAC address. 4—Network address. 5—Interface name. 6—Agent circuit ID. 7—Locally assigned.
ID	Port ID	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the port ID subtype.
PortDesc	Port description	N/A	String. Length: 0 to 255 characters.

LLDP/LocalManageAddresses

This table contains information about the management addresses of local interfaces.

XML structure

```
<LLDP>
  <LocalManageAddresses>
    <ManageAddress>
      <IfIndex></IfIndex>
      <AgentID></AgentID>
      <SubType></SubType>
      <Address></Address>
      <InterfaceType></InterfaceType>
      <InterfaceID></InterfaceID>
    </ManageAddress>
  </LocalManageAddresses>
</LLDP>
```

Table description

Item	Description
Feature name	LLDP
Table name	LocalManageAddresses
Table type	Multi-instance table
Row name	ManageAddress
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
AgentID	LLDP agent ID	Index	Enumeration: 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
SubType	Subtype of the management address	Index	Enumeration: 0—Other. 1—IPv4. 2—IPv6. 6—All802.

Column name	Column description	Column type	Data type and restrictions
Address	Management address	Index	Base64 Binary. Length: 1 to 31 octets. The format of data depends on the management address subtype.
InterfaceType	Interface type	N/A	Enumeration: • 1—Unknown. • 2—IfIndex. • 3—PortIndex.
InterfaceID	Interface ID	N/A	Unsigned integer. Length: 32 bits.

LLDP/LocalDot1Infos

This table contains the IEEE 802.1 organizationally specific information about local interfaces.

XML structure

```

<LLDP>
  <LocalDot1Infos>
    <Dot1Info>
      <IfIndex></IfIndex>
      <PVID></PVID>
      <PortProtocolVLAN>
        <VLANID></VLANID>
        <Support></Support>
        <Enable></Enable>
      </PortProtocolVLAN>
      <VLANName>
        <VLANID></VLANID>
        <Name></Name>
      </VLANName>
      <ManageVLAN></ManageVLAN>
      <ProtocolID></ProtocolID>
      <LinkAgg>
        <Support></Support>
        <Enable></Enable>
        <PortIndex></PortIndex>
      </LinkAgg>
      <VIDUsage></VIDUsage>
    </Dot1Info>
  </LocalDot1Infos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	LocalDot1Infos
Table type	Multi-instance table
Row name	Dot1Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
PVID	Neighbor interface PVID.	N/A	Unsigned integer. Value range: 1 to 4094.
PortProtocolVLAN	Protocol VLAN information.	Data structure	Members include: • VLANID. • Support. • Enable.
VLANID	Protocol VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4094.
Support	Whether protocol VLAN is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
VLANName	VLAN name information.	Data structure	Members include: • VLANID. • Name.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Name	VLAN name.	N/A	String. Length: 0 to 32 characters.
ManageVLAN	Management VLAN ID.	N/A	Unsigned integer. Value range: 0 to 4094.
ProtocolID	Protocol ID.	N/A	Base64 Binary. Length: 1 to 255 octets. The format of data depends on the protocol.

Column name	Column description	Column type	Data type and restrictions
LinkAgg	Link aggregation information.	Data structure	Members include: • Support. • Enable. • PortIndex.
Support	Whether link aggregation is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
Enable	Whether link aggregation is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
PortIndex	Member port ID.	N/A	Unsigned integer. Length: 32 bits.
VIDUsage	VID usage digest.	N/A	Base64 Binary. Length: 4 octets.

LLDP/LocalDot3Infos

This table contains the IEEE 802.3 organizationally specific information about local interfaces.

XML structure

```

<LLDP>
  <LocalDot3Infos>
    <Dot3Info>
      <IfIndex></IfIndex>
      <MACPHY>
        <AutoNegSupport></AutoNegSupport>
        <AutoNegEnable></AutoNegEnable>
        <MAU></MAU>
      </MACPHY>
      <MaxFrameSize></MaxFrameSize>
      <Power>
        <PortClass></PortClass>
        <Support></Support>
        <Enable></Enable>
        <Pairs></Pairs>
        <PairsCtrlAbility></PairsCtrlAbility>
        <Classification></Classification>
      </Power>
    </Dot3Info>
  </LocalDot3Infos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	LocalDot3Infos
Table type	Multi-instance table
Row name	Dot3Info
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
MACPHY	MAC/PHY configuration/status information.	Data structure	Members include: • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: • true—Supported. • false—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.
MAU	Operational media attachment unit type.	N/A	Unsigned integer. Length: 32 bits.
MaxFrameSize	Maximum frame size.	N/A	Unsigned integer. Length: 32 bits.
Power	Power over MDI information.	Data structure	Members include: • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: • 0—PD. • 1—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: • true—Supported. • false—Not supported.

Column name	Column description	Column type	Data type and restrictions
Enable	Whether PSE MDI power is enabled.	N/A	Boolean: true—Enabled. false—Disabled.
Pairs	Power supply mode.	N/A	Enumeration: 1—Over signal wires. 2—Over spare wires.
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: true—Yes. false—No.
Classification	Power class.	N/A	Enumeration: 1—Class0. 2—Class1. 3—Class2. 4—Class3. 5—Class4.

LLDP/LocalMEDInfos

This table contains the MED organizationally specific information about local interfaces.

XML structure

```

<LLDP>
  <LocalMEDInfos>
    <MEDInfo>
      <IfIndex></IfIndex>
      <NetworkPolicy> <!-- Repeatable -->
        <AppType></AppType>
        <UnknownFlag></UnknownFlag>
        <TagFlag></TagFlag>
        <VLANID></VLANID>
        <L2priority></L2priority>
        <DSCP></DSCP>
      </NetworkPolicy>
      <ExtPower>
        <Source></Source>
        <Priority></Priority>
        <Value></Value>
      </ExtPower>
    </MEDInfo>
  </LocalMEDInfos>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	LocalMEDInfos
Table type	Multi-instance table
Row name	MEDInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index.	Index	Unsigned integer. Length: 32 bits.
NetworkPolicy	Network policy information.	N/A	Members include: • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: • 1—Voice. • 2—Voice Signaling. • 3—Guest Voice. • 4—Guest Voice Signaling. • 5—Softphone Voice. • 6—Video Conferencing. • 7—Streaming Video. • 8—Video Signaling.
UnknownFlag	Whether the application is unknown.	N/A	Boolean: • true—Yes. • false—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: • true—Yes. • false—No.
VLANID	Network policy VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
L2priority	Layer 2 priority	N/A	Unsigned integer. Value range: 0 to 7.
Dscp	DSCP value.	N/A	Unsigned integer. Value range: 0 to 63.

Column name	Column description	Column type	Data type and restrictions
ExtPower	Extended power via MDI information.	Data structure	Members include: - Source. - Priority. - Value.
Source	PSE power source.	N/A	Enumeration: 0—Unknown. 1—Primary. 2—Backup.
Priority	Power priority.	N/A	Enumeration: 1—Critical. 2—High. 3—Low.
Value	Power value.	N/A	Unsigned integer. Length: 32 bits. Unit: milliwatt.

LLDP/CustomizedFeature

This table contains LLDP customized feature information.

XML structure

```

<LLDP>
  <CustomizedFeature>
    <DCBX></DCBX>
    <QCN></QCN>
    <EVB></EVB>
  </CustomizedFeature>
</LLDP>

```

Table description

Item	Description
Feature name	LLDP
Table name	CustomizedFeature
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DCBX	Whether DCBX feature is customized.	N/A	Boolean: • true—Enabled. • false—Disabled.
QCN	Whether QCN feature is customized..	N/A	Boolean: • true—Enabled. • false—Disabled.
EVB	Whether EVB feature is customized..	N/A	Boolean: • true—Enabled. • false—Disabled.

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XML structure	7
Table description	7
Columns	8

Login

Login/Header

Banner information about user login.

XML structure

```
<Login>
  <Header>
    <Incoming></Incoming>
    <Legal></Legal>
    <Login></Login>
    <Motd></Motd>
    <Shell></Shell>
  </Header>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Header
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Incoming	The banner to be displayed before a modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	The starting and ending characters for each banner must be the same character. The character can be any character and can't be included in the banner.
Legal	The banner to be displayed before a user inputs the username and password to access the CLI.	N/A	String. Length: 2 to 2002 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Login	The banner to be displayed before password or scheme authentication is performed for a login user.	N/A	String. Length: 2 to 2002 characters.	
Motd	The greeting banner to be displayed before the legal banner appears.	N/A	String. Length: 2 to 2002 characters.	
Shell	The banner to be displayed before a non-modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	

Login/Class/Classes

The authentication configuration information for users on each type of line class.

XML structure

```

<Login>
  <Class>
    <Classes>
      <Class>
        <ClassType></ClassType>
        <AuthMode></AuthMode>
        <Password></Password>
        <ProtocolIn></ProtocolIn>
      </Class>
    </Classes>
  </Class>
</Login>

```

Table description

Item	Description
Feature name	Login
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line class type depends on the device model.
AuthMode	Authentication mode.	N/A	Enumeration: 0—None. 1—Password 2—Scheme.	In FIPS mode, the authentication mode must be scheme. The following default settings apply: - In non-FIPS mode: - Password authentication is enabled for AUX and VTY lines. - Authentication is disabled for console and TTY lines. - If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line. - In FIPS mode, scheme authentication is enabled. ⚠ IMPORTANT: If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.
Password	Password for password authentication.	N/A	String, case-sensitive. Length: 1 to 16 characters.	Available only in non-FIPS mode.
ProtocolIn	Supported protocols.	N/A	Enumeration: 0—SSH. 1—Telnet. 2—PAD. 5—All.	The following default settings apply: - In non-FIPS mode, all protocols are supported. - In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Class/Roles

The user role information for users on each type of line class.

XML structure

```
<Login>
  <Class>
    <Roles>
      <Role>
        <ClassType></ClassType>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Class>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: • 1—Console • 2—TTY. • 3—AUX. • 4—VTY.	The supported line class type depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/Line/Lines

The authentication configuration information for users on specific user lines.

XML structure

```

<Login>
  <Line>
    <Lines>
      <Line>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <AuthMode></AuthMode>
        <Password></Password>
        <ProtocolIn></ProtocolIn>
      </Line>
    </Lines>
  </Line>
</Login>

```

Table description

Item	Description
Feature name	Login
Table name	Lines
Table type	Multi-instance table
Row name	Line
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.
AuthMode	Authentication mode.	N/A	Enumeration: 0—None. 1—Password 2—Scheme.	In FIPS mode, the authentication mode must be scheme. The following default settings apply: - In non-FIPS mode: - Password authentication is enabled for AUX and VTY lines. - Authentication is disabled for console and TTY lines. - If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line. - In FIPS mode, scheme authentication is enabled. ⚠ IMPORTANT: If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	Password for password authentication.	N/A	String, case-sensitive. Length: 1 to 16 characters.	Available only in non-FIPS mode.
ProtocolIn	Supported protocols.	N/A	Enumeration: 0—SSH. 1—Telnet. 2—PAD. 5—All.	The following default settings apply: - In non-FIPS mode, all protocols are supported. - In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Line/Roles

The user role information for users on specific user lines.

XML structure

```

<Login>
  <Line>
    <Roles>
      <Role>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Line>
</Login>

```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): - The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. - The mdc-operator user role is specified on user lines for other non-default MDC login users. - The context-operator user role is specified on user lines for other non-default Context login users.

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XML structure	6
Table description	7
Columns	7
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XML structure	8
Table description	8
Columns	8

Login

Login/Header

Banner information about user login.

XML structure

```
<Login>
  <Header>
    <Incoming></Incoming>
    <Legal></Legal>
    <Login></Login>
    <Motd></Motd>
    <Shell></Shell>
  </Header>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Header
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Incoming	The banner to be displayed before a modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	The starting and ending characters for each banner must be the same character. The character can be any character and can't be included in the banner.
Legal	The banner to be displayed before a user inputs the username and password to access the CLI.	N/A	String. Length: 2 to 2002 characters.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Login	The banner to be displayed before password or scheme authentication is performed for a login user.	N/A	String. Length: 2 to 2002 characters.	
Motd	The greeting banner to be displayed before the legal banner appears.	N/A	String. Length: 2 to 2002 characters.	
Shell	The banner to be displayed before a non-modem dial-in user accesses user view.	N/A	String. Length: 2 to 2002 characters.	

Login/Class/Classes

The authentication configuration information for users on each type of line class.

XML structure

```

<Login>
  <Class>
    <Classes>
      <Class>
        <ClassType></ClassType>
        <AuthMode></AuthMode>
        <ProtocolIn></ProtocolIn>
      </Class>
    </Classes>
  </Class>
</Login>

```

Table description

Item	Description
Feature name	Login
Table name	Classes
Table type	Multi-instance table
Row name	Class
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line class type depends on the device model.
AuthMode	Authentication mode.	N/A	Enumeration: 0—None. 1—Password. 2—Scheme.	In FIPS mode, the authentication mode must be scheme. The following default settings apply: - In non-FIPS mode: - Password authentication is enabled for AUX and VTY lines. - Authentication is disabled for console and TTY lines. - If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line. - In FIPS mode, scheme authentication is enabled. ! IMPORTANT: If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.
ProtocolIn	Supported protocols.	N/A	Enumeration: 0—SSH. 1—Telnet. 2—PAD. 5—All.	The following default settings apply: - In non-FIPS mode, all protocols are supported. - In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Class/Roles

The user role information for users on each type of line class.

XML structure

```
<Login>
  <Class>
```

```

<Roles>
  <Role>
    <ClassType></ClassType>
    <RoleName></RoleName>
  </Role>
</Roles>
</Class>
</Login>

```

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassType	User line class type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line class type depends on the device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): - The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. - The mdc-operator user role is specified on user lines for other non-default MDC login users. - The context-operator user role is specified on user lines for other non-default Context login users.

Login/Line/Lines

The authentication configuration information for users on specific user lines.

XML structure

```
<Login>
  <Line>
    <Lines>
      <Line>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <AuthMode></AuthMode>
        <ProtocolIn></ProtocolIn>
      </Line>
    </Lines>
  </Line>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Lines
Table type	Multi-instance table
Row name	Line
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: 1—Console. 2—TTY. 3—AUX. 4—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMode	Authentication mode.	N/A	Enumeration: 0—None. 1—Password. 2—Scheme.	In FIPS mode, the authentication mode must be scheme. The following default settings apply: - In non-FIPS mode: - Password authentication is enabled for AUX and VTY lines. - Authentication is disabled for console and TTY lines. - If the device has an AUX port and does not have a console port, authentication is disabled for the AUX line. - In FIPS mode, scheme authentication is enabled. ⚠ IMPORTANT: If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.
ProtocolIn	Supported protocols.	N/A	Enumeration: 0—SSH. 1—Telnet. 2—PAD. 5—All.	The following default settings apply: - In non-FIPS mode, all protocols are supported. - In FIPS mode, SSH is supported. This column is effective only when the ClassType value is 4 (VTY). If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme). Support for PAD depends on the device model.

Login/Line/Roles

The user role information for users on specific user lines.

XML structure

```

<Login>
  <Line>
    <Roles>
      <Role>
        <LineType></LineType>
        <LineNumber></LineNumber>
        <RoleName></RoleName>
      </Role>
    </Roles>
  </Line>

```


</Login>

Table description

Item	Description
Feature name	Login
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	Available only in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LineType	User line type.	Index	Enumeration: • 1—Console • 2—TTY. • 3—AUX. • 4—VTY.	The supported line type depends on the device model.
LineNumber	The number of the first user line to be specified. This user line and the subsequent lines are specified.	Index	N/A	This value varies by line type and device model.
RoleName	User role name.	Index	String, case-sensitive. Length: 1 to 63 characters.	You can assign a maximum of 64 user roles to a user line. By default, the network-admin user role is specified on the console/AUX user line, and the network-operator user role is specified on any other user line. (MDC- and context-incapable devices.) The following default settings apply (MDC- and context-capable devices): • The network-admin user role is specified on the console/AUX user line for default-Context or default-MDC login users. The network-operator user role is specified on any other user line for default-Context or default MDC login users. • The mdc-operator user role is specified on user lines for other non-default MDC login users. • The context-operator user role is specified on user lines for other non-default Context login users.

Login/Specification

Login configuration specification table.

Login configuration capacity differs on different device models.

- Whether the AuthMode column in the tables Login/Class/Classes and Login/Line/Lines can support the none or password authentication mode.
- Whether the ProtocolIn column in the tables Login/Class/Classes and Login/Line/Lines can support Telnet or PAD.

XML structure

```
<Login>
  <Specification>
    <AuthMode>
      <NoneAuth></NoneAuth>
      <PasswordAuth></PasswordAuth>
    </AuthMode>
    <ProtocolIn>
      <Telnet></Telnet>
      <Pad></Pad>
    </ProtocolIn>
  </Specification>
</Login>
```

Table description

Item	Description
Feature name	Login
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthMode	Supported authentication modes.	Data structure	Members include: • NoneAuth. • PasswordAuth.	N/A
NoneAuth	Whether to support the none authentication mode.	N/A	Boolean: • true. • false.	In non-FIPS mode, the none and password authentication modes are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
PasswordAuth	Whether to support the password authentication mode.	N/A	Boolean: - true. - false.	In FIPS mode, the none and password authentication modes are not supported.
ProtocolIn	Supported protocols.	Data structure	Members include: - Telnet. - Pad.	N/A
Telnet	Whether to support Telnet.	N/A	Boolean: - true. - false.	In non-FIPS mode, Telnet and PAD are supported.
Pad	Whether to support PAD.	N/A	Boolean: - true. - false.	In FIPS mode, Telnet and PAD are not supported.

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LR

LR/Interfaces

This table contains information about line-rate.

XML structure

```
<LR>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Interface>
  </Interfaces>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CIR	Committed information rate	N/A	Unsigned integer.	Required. The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	The value of this column depends on the device model. If CBS is not configured, EBS can not be configured
PIR	Peak information rate	N/A	Unsigned integer.	The value of this column depends on the device model.

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Table description.....	3
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LR

LR/Interfaces

This table contains information about line-rate.

XML structure

```
<LR>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <PassedPkts></PassedPkts>
      <DiscardedPkts></DiscardedPkts>
      <DelayedPkts></DelayedPkts>
      <PassedBytes></PassedBytes>
      <DiscardedBytes></DiscardedBytes>
      <DelayedBytes></DelayedBytes>
      <Active></Active>
    </Interface>
  </Interfaces>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
PassedPkts	Number of packets that have passed	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedPkts	Number of packets that have discarded	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DelayedPkts	Number of delayed packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
PassedBytes	Bytes of packets that have passed	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedBytes	Bytes of packets that have discarded	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DelayedBytes	Bytes of delayed packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Active	Whether the rate limit configuration is activated	N/A	Boolean: • true—Activated. • false—Not activated.	N/A

LR/IfCapabilities

This table contains interface capability information about line-rate.

XML structure

```
<LR>
  <IfCapabilities>
    <IfCapability>
      <IfIndex></IfIndex>
      <CIRMin></CIRMin>
      <CIRMax></CIRMax>
      <CIRGranularity></CIRGranularity>
      <CBSMin></CBSMin>
      <CBSMax></CBSMax>
      <CBSGranularity></CBSGranularity>
      <EBSMin></EBSMin>
      <EBSMax></EBSMax>
      <EBSGranularity></EBSGranularity>
      <PIRMin></PIRMin>
      <PIRMax></PIRMax>
      <PIRGranularity></PIRGranularity>
    </IfCapability>
  </IfCapabilities>
</LR>
```

Table description

Item	Description
Feature name	LR
Table name	Interface capabilities
Table type	Multi-instance table
Row name	Interface capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
CIRMin	Minimum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CIRMax	Maximum CIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CIRGranularity	Granularity of CIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSMin	Minimum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSMax	Maximum CBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
CBSGranularity	Granularity of CBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
EBSMin	Minimum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
EBSMax	Maximum EBS value in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.

Column name	Column description	Column type	Data type and restrictions	Remarks
EBSGranularity	Granularity of EBS in bytes	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRMin	Minimum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRMax	Maximum PIR value in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.
PIRGranularity	Granularity of PIR in kbps	N/A	Unsigned integer.	The value of this column depends on the device model and interface type.

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MAC

MAC/MacClearByVLAN

This table is used to clear MAC address entries according to VLAN ID.

XML structure

```
<MAC>
  <MacClearByVLAN>
    <ClearByVLAN>
      <Status></Status>
      <VLANID></VLANID>
    </ClearByVLAN>
  </MacClearByVLAN>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByVLAN
Table type	Multi-instance table
Row name	ClearByVLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: • 2—Learned. • 3—Static. • 4—Blackhole. • 5—Multiport. • 6—Multicast.	If you do not specify this column, all status is set.
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

MAC/MacClearByPortIndex

This table is used to clear MAC address entries according to port index.

XML structure

```
<MAC>
  <MacClearByPortIndex>
    <ClearByPortIndex>
      <Status></Status>
      <PortIndex></PortIndex>
    </ClearByPortIndex>
  </MacClearByPortIndex>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByPortIndex
Table type	Multi-instance table
Row name	ClearByPortIndex
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: 2—Learned. 3—Static.	If you do not specify this column, all status is set.
PortIndex	Port index	Index	Unsigned integer.	N/A

MAC/MacClearByStatus

This table is used to clear MAC address entries according to status.

XML structure

```
<MAC>
  <MacClearByStatus>
    <ClearByStatus>
      <Status></Status>
    </ClearByStatus>
  </MacClearByStatus>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacClearByStatus
Table type	Multi-instance table
Row name	ClearByStatus
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	Index	Enumeration: • 5—Multiport. • 6—Multicast.	If you do not specify this column, all status is set.

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MAC

MAC/MacUnicastTable

This table contains unicast MAC address table information.

XML structure

```
<MAC>
  <MacUnicastTable>
    <Unicast>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <Status></Status>
    </Unicast>
  </MacUnicastTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacUnicastTable
Table type	Multi-instance table
Row name	Unicast
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PortIndex	Port index	N/A	Unsigned integer.	Required when Status is Learned or Static. It must not be specified when Status is Blackhole.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	N/A	Enumeration: 2—Learned. 3—Static. 4—Blackhole.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```

<MAC>
  <MacGroupTable>
    <Group>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <PortList></PortList>
    </Group>
  </MacGroupTable>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacGroupTable
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	N/A	Enumeration: 5—Multiport. 6—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports. the string length depends on the device port number. Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. Each bit represents a port. The left-most bit represents the port with the smallest port index 1 and the right-most bit represents the port with the biggest port index. If a bit is set, the port represented by the bit is included in the port set. Otherwise, the port isn't included.

MAC/MacAging

This table contains the information of aging time for dynamic MAC address entries.

XML structure

```

<MAC>
  <MacAging>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacAging
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Aging time for dynamic MAC address entries	N/A	Unsigned integer. Value range: 0, AgingTimeMin to AgingTimeMax seconds.	The default is 300 seconds. 0 means not aging dynamic MAC address entries. Values of AgingTimeMin and AgingTimeMax depend on the device model.

MAC/MacPort

This table contains the information of MAC learning on an interface.

XML structure

```
<MAC>
  <MacPort>
    <PortLearn>
      <PortIndex></PortIndex>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <PortForwardingEnable></PortForwardingEnable>
    </PortLearn>
  </MacPort>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
LearnEnable	Whether the MAC address learning function is enable	N/A	Boolean: true(default) false	N/A
LearnMaxNum	MAC learning limit on an interface	N/A	Unsigned integer. Value range: 0 to PortLearnMaxNumLimit.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. 0 means the interface is disabled from learning MAC address. The value of PortLearnMaxNumLimit depends on the device model. The default setting varies by device model.
PortForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit. Whether the PortForwarding function is enable	N/A	Boolean: true (default) false	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.

MAC/MacVLAN

This table contains the information of MAC learning for a VLAN.

XML structure

```

<MAC>
  <MacVLAN>
    <VLANLearn>
      <VLANID></VLANID>
    
```

```

    <LearnEnable></LearnEnable>
    <LearnMaxNum></LearnMaxNum>
    <VLANForwardingEnable></VLANForwardingEnable>
  </VLANLearn>
</MacVLAN>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	Whether the MAC address learning function is enable	N/A	Boolean: true(default) false	N/A
LearnMaxNum	MAC learning limit for a VLAN	N/A	Unsigned integer. Value range: 0 to VLANLearnMaxNumLimit.	0 means the VLAN is not allowed to learn MAC addresses. The value of VLANLearnMaxNumLimit depends on the device model. The default setting varies by device model.
VLANForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit. Whether the PortForwarding function is enable	N/A	Boolean: true(default) false	N/A

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```
<MAC>
  <MacFwdSrcCheck>
    <FwdSrcCheck>
      <IfIndex></IfIndex>
      <FwdSrcCheckEnable></FwdSrcCheckEnable>
    </FwdSrcCheck>
  </MacFwdSrcCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacFwdSrcCheck
Table type	Multi-instance table
Row name	FwdSrcCheck
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A

MAC/MacPortConfig

This table contains the information of MAC config on an interface.

XML structure

```
<MAC>
  <MacPortConfig>
    <PortConfig>
      <IfIndex></IfIndex>
      <PortBridgeEnable></PortBridgeEnable>
    </PortConfig>
  </MacPortConfig>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacPortConfig
Table type	Multi-instance table
Row name	PortConfig
Restrictions	This table supports interface types: Layer 2 Ethernet interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Port index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PortBridgeEnable	Whether the MAC address bridge function is enable	N/A	Boolean: false (default) true	N/A

MAC/SRVs

This table contains information about service instances of Layer 2 Ethernet interfaces.

XML structure

```
<MAC>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <LrnPriority></LrnPriority>
    </SRV>
  </SRVs>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	SRVs
Table type	Multi-instance table
Row name	SRV
Restrictions	This table supports only Layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
LrnPriority	Priority type of MAC address learning	N/A	Enumeration: 1—high 2—low	N/A

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XML structure	7
Table description	8
Columns	8
MAC/MacPortConfig	8
XML structure	8
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Columns	9
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XML structure	9
Table description	9
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MAC

MAC/MacUnicastTable

This table contains unicast MAC address table information.

XML structure

```
<MAC>
  <MacUnicastTable>
    <Unicast>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <PortIndex></PortIndex>
      <NickName></NickName>
      <Status></Status>
      <Aging></Aging>
    </Unicast>
  </MacUnicastTable>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacUnicastTable
Table type	Multi-instance table
Row name	Unicast
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PortIndex	Port index	N/A	Unsigned integer.	N/A
NickName	RB through which packets leave the TRILL network	N/A	Hexadecimal string of 16-bit number	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MAC address entry	N/A	Enumeration: • 0—Other. • 1—Security. • 2—Learned. • 3—Static. • 4—Blackhole.	N/A
Aging	Aging time	N/A	Boolean: • true—The entry is aging. • false—The entry does not age.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```

<MAC>
  <MacGroupTable>
    <Group>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <PortList></PortList>
    </Group>
  </MacGroupTable>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacGroupTable
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Status	Status of the MAC address entry	N/A	Enumeration: • 5—Multiport. • 6—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports.

MAC/MacAging

This table contains the information of aging time for dynamic MAC address entries.

XML structure

```
<MAC>
  <MacAging>
    <AgingTimeMin></AgingTimeMin>
    <AgingTimeMax></AgingTimeMax>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacAging
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTimeMin	Lower limit of the aging time	N/A	Unsigned integer.	N/A
AgingTimeMax	Upper limit of the aging time	N/A	Unsigned integer.	N/A
AgingTime	Aging time for dynamic MAC address entries	N/A	Unsigned integer. Value range: 0, AgingTimeMin to AgingTimeMax seconds.	The default is 300 seconds. 0 means not aging dynamic MAC address entries. Values of AgingTimeMin and AgingTimeMax depend on the device model.

MAC/MacPort

This table contains the information of MAC learning on an interface.

XML structure

```

<MAC>
  <MacPort>
    <PortLearn>
      <PortIndex></PortIndex>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <PortForwardingEnable></PortForwardingEnable>
    </PortLearn>
  </MacPort>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	Index	Unsigned integer.	N/A
LearnEnable	MAC address learning	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A
LearnMaxNum	MAC learning limit on an interface	N/A	Unsigned integer. Value range: 0 to PortLearnMaxNumLimit.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. 0 means the interface is disabled from learning MAC address. The value of PortLearnMaxNumLimit depends on the device model. The default setting varies by device model.
PortForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: true—Enabled (default). false—Disabled.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.

MAC/MacVLAN

This table contains the information of MAC learning for a VLAN.

XML structure

```

<MAC>
  <MacVLAN>
    <VLANLearn>
      <VLANID></VLANID>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <VLANForwardingEnable></VLANForwardingEnable>
    </VLANLearn>
  </MacVLAN>
</MAC>

```


Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	MAC address learning	N/A	Boolean: true—Enabled(default). false—Disabled.	N/A
LearnMaxNum	MAC learning limit for a VLAN	N/A	Unsigned integer. Value range: 0 to VLANLearnMaxNumLimit.	0 means the VLAN is not allowed to learn MAC addresses. The value of VLANLearnMaxNumLimit depends on the device model. The default setting varies by device model.
VLANForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: true—Enabled(default). false—Disabled.	N/A

MAC/MacSpecification

This table contains MAC specifications information.

XML structure

```
<MAC>
  <MacSpecification>
    <SupportMacGroup></SupportMacGroup>
    <SupportMacVLANLearnLimit></SupportMacVLANLearnLimit>
```

```

    <PortLearnMaxNumLimit></PortLearnMaxNumLimit>
    <VLANLearnMaxNumLimit></VLANLearnMaxNumLimit>
    <SupportPortBridgeEnable></SupportPortBridgeEnable>
  </MacSpecification>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportMacGroup	Supports for multiport MAC addresses.	N/A	Boolean: true—Support. false—Not support.
SupportMacVLANLearnLimit	Supports for configuring the MAC learning limit for a VLAN.	N/A	Boolean: true—Support. false—Not support.
PortLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit on an interface.	N/A	Unsigned integer.
VLANLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit for a VLAN.	N/A	Unsigned integer.
SupportPortBridgeEnable	Supports for bridge function.	N/A	Boolean: true—Support. false—Not support.

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```
<MAC>
```

```

<MacFwdSrcCheck>
  <FwdSrcCheck>
    <IfIndex></IfIndex>
    <FwdSrcCheckEnable></FwdSrcCheckEnable>
  </FwdSrcCheck>
</MacFwdSrcCheck>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacFwdSrcCheck
Table type	Multi-instance table
Row name	FwdSrcCheck
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	N/A
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A

MAC/MacPortConfig

This table contains the information of MAC config on an interface.

XML structure

```

<MAC>
  <MacPortConfig>
    <PortConfig>
      <IfIndex></IfIndex>
      <PortBridgeEnable></PortBridgeEnable>
    </PortConfig>
  </MacPortConfig>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacPortConfig
Table type	Multi-instance table
Row name	PortConfig
Restrictions	This table supports interface types: Layer 2 Ethernet interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Port index	Index	Unsigned integer.	N/A
PortBridgeEnable	Whether the MAC address bridge function is enable	N/A	Boolean: false (default) true	N/A

MAC/SRVs

This table contains information about service instances of Layer 2 Ethernet interfaces.

XML structure

```
<MAC>
  <SRVs>
    <SRV>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <LrnPriority></LrnPriority>
    </SRV>
  </SRVs>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	SRVs
Table type	Multi-instance table

Row name	SRV
Restrictions	This table supports only Layer 2 Ethernet interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	In some versions, the interface name is supported. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	N/A
LrnPriority	Priority type of MAC address learning	N/A	Enumeration: • 1—high • 2—low	N/A

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Columns.....	4
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XML structure.....	5
Table description.....	5
Columns.....	5

MACA

MACA/ClearAllStatistics

This table clears MAC authentication statistics for all interfaces.

XML structure

```
<MACA>
  <ClearAllStatistics>
    <Clear></Clear>
  </ClearAllStatistics>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ClearAllStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears MAC authentication statistics for all interfaces.	N/A	This column must be empty.

MACA/ClearInterStatistics

This table clears MAC authentication statistics for an interface.

XML structure

```
<MACA>
  <ClearInterStatistics>
    <Interface>
      <IfIndex></IfIndex>
    <Clear></Clear>
  </ClearInterStatistics>
</MACA>
```

```

    </Interface>
  </ClearInterStatistics>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	ClearInterStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Resets the interface's statistics .	Index	Unsigned integer.
Clear	Clears the interface's statistics.	N/A	This column must be empty.

MACA/ResetGVLANUser

This table removes all MAC authentication users from the guest VLAN on an interface.

XML structure

```

<MACA>
  <ResetGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetGVLANUser>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	ResetGVLANUser
Table type	Multi-instance table

Item	Description
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
ResetAll	Removes all MAC authentication users from the guest VLAN on the interface.	N/A	This column must be empty.

MACA/ResetOneGVLANUser

This table removes the specified MAC authentication user from the guest VLAN on an interface.

XML structure

```

<MACA>
  <ResetOneGVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneGVLANUser>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	ResetOneGVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
UserMAC	Specifies a user by its MAC address.	Index	MAC address.
Reset	Removes the specified user from the guest VLAN on the interface.	N/A	This column must be empty.

MACA/ResetCVLANUser

This table removes all MAC authentication users from the critical VLAN on an interface.

XML structure

```

<MACA>
  <ResetCVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <ResetAll></ResetAll>
    </Interface>
  </ResetCVLANUser>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	ResetCVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
ResetAll	Removes all MAC authentication users from the critical VLAN on the interface.	N/A	This column must be empty.

MACA/ResetOneCVLANUser

This table removes the specified MAC authentication user from the critical VLAN on an interface.

XML structure

```
<MACA>
  <ResetOneCVLANUser>
    <Interface>
      <IfIndex></IfIndex>
      <UserMAC></UserMAC>
      <Reset></Reset>
    </Interface>
  </ResetOneCVLANUser>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	ResetOneCVLANUser
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Specifies an interface.	Index	Unsigned integer.
UserMAC	Specifies a user by its MAC address.	Index	MAC address.
Reset	Removes the specified MAC authentication user from the critical VLAN on the interface.	N/A	This column must be empty.

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MACA

MACA/Common

This table contains information about MAC authentication global parameters.

XML structure

```
<MACA>
  <Common>
    <Enable></Enable>
    <Domain></Domain>
    <UserNameFormat></UserNameFormat>
    <UserName></UserName>
    <UserPassword></UserPassword>
    <IdleInterval></IdleInterval>
    <QuietInterval></QuietInterval>
    <ServerInterval></ServerInterval>
  </Common>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global MAC authentication status	N/A	Boolean: true—Enabled false—Disabled(default)

Column name	Column description	Column type	Data type and restrictions
Domain	Authentication domain of the user	N/A	String. - Length: 1 to 255 characters. - Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.
UserNameFormat	Username format	N/A	Enumeration: 1—Fixed 2—Individual MAC address(default)
UserName	Fixed username of the device	N/A	String. Length: 1 to 55 characters. Default value is "mac".
UserPassword	Password for the fixed user name	N/A	String. Length: 1 to 63 characters. Default is not configured.
IdleInterval	Value for the offline detect timer	N/A	- Unsigned integer. Value range: 60 to 2147483647 seconds. - Default: 300 seconds.
QuietInterval	Value for the quiet timer	N/A	Unsigned integer. Value range: 1 to 3600 seconds. Default: 60 seconds.
ServerInterval	Value for the server timeout timer	N/A	Unsigned integer. Value range: 100 to 300 seconds. Default: 100 seconds.

MACA/Interfaces

This table contains MAC authentication information on interfaces.

XML structure

```

<MACA>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <AuthDelayInterval></AuthDelayInterval>
      <MaxUser></MaxUser>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MultiVLAN></MultiVLAN>
    </Interface>
  </Interfaces>
</MACA>

```

```

    <CriticalVLAN></CriticalVLAN>
    <GuestVLAN></GuestVLAN>
    <Domain></Domain>
  </Interface>
</Interfaces>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Enable MAC authentication	N/A	Boolean: true—Enabled false—Disabled(default)
AuthDelayInterval	Value for MAC authentication delay timer	N/A	- Unsigned integer. - Value range: 1 to 180 seconds. - Default: Not configured.
MaxUser	Maximum number of users on this interface	N/A	Unsigned integer. Value range:1 to 4096. Default: 4096.
ReauthUnreachableMode	Status of users when the AAA server is not available for MAC reauthentication	N/A	Enumeration: 1—Offline(default) 2—Online
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: 0—Single VLAN(default) 1—Multiple VLAN
CriticalVLAN	VLAN for users who fail authentication because of unreachable servers	N/A	- Unsigned integer. - Value range: 1 to 4094. - Default: Not configured.
GuestVLAN	VLAN for users who fail authentication because of any other reason than unreachable servers	N/A	- Unsigned integer. - Value range: 1 to 4094. - Default: Not configured.

Column name	Column description	Column type	Data type and restrictions
Domain	Authentication domain of the user	N/A	String. - Length: 1 to 255 characters. - Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.

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MACA

MACA/Common

This table contains information about MAC authentication global parameters.

XML structure

```
<MACA>
  <Common>
    <Enable></Enable>
    <Domain></Domain>
    <UserNameFormat></UserNameFormat>
    <UserName></UserName>
    <UserPassword></UserPassword>
    <IdleInterval></IdleInterval>
    <QuietInterval></QuietInterval>
    <ServerInterval></ServerInterval>
    <OnlineUserNum></OnlineUserNum>
    <SilentMACNum></SilentMACNum>
  </Common>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global MAC authentication status	N/A	Boolean: true—Enabled false—Disabled
Domain	Authentication domain of the user	N/A	String. Length: 1 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
UserNameFormat	Username format	N/A	Enumeration: • 1—Fixed • 2—Individual MAC address
UserName	Fixed username of the device	N/A	String. Length: 1 to 55 characters.
UserPassword	Password for the fixed user name	N/A	Ciphertext string. Length: 1 to 117 characters.
IdleInterval	Value for the offline detect timer	N/A	Unsigned integer. Value range: 60 to 2147483647 seconds.
QuietInterval	Value for the quiet timer	N/A	Unsigned integer. Value range: 1 to 3600 seconds.
ServerInterval	Value for the server timeout timer	N/A	Unsigned integer. Value range: 100 to 300 seconds.
OnlineUserNum	Current online user count	N/A	Unsigned integer.
SilentMACNum	Current silent MAC count	N/A	Unsigned integer.

MACA/SilentMAC

This table contains silent MAC information of MAC authentication.

XML structure

```

<MACA>
  <SilentMACs>
    <SilentMAC>
      <MAC></MAC>
      <VLANID></VLANID>
      <IfIndex></IfIndex>
    </SilentMAC>
  </SilentMACs>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	SilentMACs
Table type	Multi-instance table
Row name	SilentMAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MAC	Silent MAC address	Index	MAC address.
VLANID	From which VLAN the MAC tries to logs on	Index	Unsigned integer. Value range: 1 to 4094.
IfIndex	Interface index	Index	Unsigned integer.

MACA/Interfaces

This table contains MAC authentication information on interfaces.

XML structure

```
<MACA>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <AuthDelayEnable></AuthDelayEnable>
      <AuthDelayInterval></AuthDelayInterval>
      <MaxUser></MaxUser>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MultiVLAN></MultiVLAN>
      <CriticalVLAN></CriticalVLAN>
      <GuestVLAN></GuestVLAN>
      <OnlineUserNum></OnlineUserNum>
      <Domain></Domain>
    </Interface>
  </Interfaces>
</MACA>
```

Table description

Item	Description
Feature name	MACA
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Enable	Enable MAC authentication	N/A	Boolean: • true—Enabled • false—Disabled
AuthDelayEnable	Enable authentication delay	N/A	Boolean: • true—Enabled • false—Disabled
AuthDelayInterval	Value for MAC authentication delay timer	N/A	Unsigned integer Value range: 1 to 180 seconds.
MaxUser	Maximum number of users on this interface	N/A	Unsigned integer. Value range:1 to 65535.
ReauthUnreachableMode	Status of users when the AAA server is not available for MAC reauthentication	N/A	Enumeration: • 1—Offline • 2—Online
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: • 0—Single VLAN • 1—Multiple VLAN
CriticalVLAN	VLAN for users who fail authentication because of unreachable servers	N/A	Unsigned integer. Value range: 1 to 4094.
GuestVLAN	VLAN for users who fail authentication because of any other reason than unreachable servers.	N/A	Unsigned integer. Value range: 1 to 4094.
OnlineUserNum	Current online user count on the interface	N/A	Unsigned integer.
Domain	Authentication domain of the user	N/A	String. • Length: 1 to 255 characters. Default: No authentication domain is specified for MAC authentication users. The system default authentication domain is used.

MACA/InterfaceUsers

This table displays MAC authentication user information.

XML structure

```
<MACA>
  <InterfaceUsers>
    <InterfaceUser>
      <IfIndex></IfIndex>
```

```

    <UserMAC></UserMAC>
    <Name></Name>
    <Domain></Domain>
    <InitialVLAN></InitialVLAN>
    <AuthzVLAN></AuthzVLAN>
    <AuthzACLGroup></AuthzACLGroup>
    <AuthzUserProfile></AuthzUserProfile>
    <TermAction></TermAction>
    <TimeoutPeriod></TimeoutPeriod>
    <LogonTime></LogonTime>
    <OnlineDuration></OnlineDuration>
  </InterfaceUser>
</InterfaceUsers>
</MACA>

```

Table description

Item	Description
Feature name	MACA
Table name	InterfaceUsers
Table type	Multi-instance table
Row name	InterfaceUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
UserMAC	MAC address of the user on the interface	Index	MAC address.
Name	Username of the user	N/A	String. Length: 1 to 253 characters.
Domain	ISP domain used for MAC authentication	N/A	String. Length: 1 to 255 characters.
InitialVLAN	VLAN to which the user belongs before MAC authentication	N/A	Unsigned integer. Value range: 1 to 4094.
AuthzVLAN	VLAN authorized to the authenticated user	N/A	Unsigned integer. Value range: 1 to 4094.
AuthzACLGroup	ACL authorized to the authenticated user	N/A	Unsigned integer.
AuthzUserProfile	User profile authorized to the authenticated user	N/A	String.
TermAction	Action attribute assigned by the AAA server when the session timeout timer expires	N/A	Enumeration: 0—Default 1—Radius-request

Column name	Column description	Column type	Data type and restrictions
TimeoutPeriod	Value for the AAA server-assigned session timeout timer	N/A	Unsigned integer
LogonTime	Time at which the user logs into the device	N/A	String. Format: YYYY-MM-DD HH:MM:SS.
OnlineDuration	Online duration of the user	N/A	Unsigned integer.

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MDC

MDC/Contexts

This table is used to configure MDCs for a device and show MDC's state.

XML structure

```
<MDC>
  <Contexts>
    <Context>
      <MDCID></MDCID>
      <Name></Name>
      <State></State>
    </Context>
  </Contexts>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	Only support default MDC.
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model. 0 means the system assigns the lowest ID number among the available IDs to the MDC.
Name	Full name of an MDC	N/A	String. Length: 1 to 15 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the MDC	N/A	Enumeration: 1: start 2: stop	tart—Start the MDC. stop—Stop the MDC.

MDC/Resources/Disks

This table contains disk information.

XML structure

```

<MDC>
  <Resources>
    <Disks>
      <Disk>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of disk(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of disk(%)	N/A	Positive integer. Value range: 1 to 100.	The default value is 100.

MDC/Resources/Memories

This table contains memory information.

XML structure

```
<MDC>
  <Resources>
    <Memories>
      <Memory>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	The default value is 100.

MDC/Resources/CPU

This table contains cpu information.

XML structure

```
<MDC>
  <Resources>
    <CPUs>
      <CPU>
        <MDCID></MDCID>
        <Weight></Weight>
      </CPU>
    </CPUs>
  </Resources>
</MDC>
```

```

    </Resources>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Weight	CPU weight-maximum of available resources of CPU(weight)	N/A	Positive integer. Value range:1-10	Limit maximum of cpu resource. Default:Each MDC has a CPU weight of 10.

MDC/LocationEntitys

This table contains location state.

XML structure

```

<MDC>
  <Locations>
    <Location>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <State></State>
    </Location>
  </Locations>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	Locations
Table type	Multi-instance table
Row name	Location
Restrictions	Only support default MDC. Blade controllers must be located by BladeControllerTeam table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the interface cards. Default: All interface cards of the device belong to the default MDC.

MDC/LocationBladeControllerTeam

This table contains location state of BladeControllerTeam.

XML structure

```
<MDC>
  <LocationBladeControllerTeams>
    <LocationBladeControllerTeam>
      <MDCID></MDCID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBladeControllerTeam>
  </LocationBladeControllerTeams>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBladeControllerTeam
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the resource of BladeControllerTeams. Default: All BladeControllerTeams of the device belong to the default MDC.

MDC/AllocationIdentities

This table contains physical interface.

XML structure

```
<MDC>
  <Allocations>
    <Allocation>
      <MDCID></MDCID>
      <InterfaceList></InterfaceList>
    </Allocation>
  </Allocations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	Only support default MDC.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.
InterfaceList	List of interfaces	N/A	String.	Different interfaces combinations(a single interface or interface list)are separated by comma',',interface lists are separated by ' to '(There is a space on both sides of the word 'to'). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48

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MDC

MDC/Contexts

This table contains MDC's status.

XML structure

```
<MDC>
  <Contexts>
    <Context>
      <MDCID></MDCID>
      <Name></Name>
      <State></State>
      <Status></Status>
    </Context>
  </Contexts>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	Default MDC can query information of all MDCs. Non-default MDC can only query the current MDC change without

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Name	Full name of an MDC	N/A	String. Length: 1 to 15 characters.	N/A
State	State of the MDC	N/A	Enumeration: 1: start 2: stop	start—Start the MDC. stop—Stop the MDC.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the MDC	N/A	Enumeration: 1: inactive 2: starting 3: active 4: stopping 5: updating	- inactive—The MDC is stopped or not started yet. - starting—The device is executing the mdc start command to start the MDC. - active—The MDC is operating correctly. - stopping—The device is executing the undo mdc start command to stop the MDC. - updating—The MDC is updating.

MDC/Resources/Disks

This table contains disk information.

XML structure

```

<MDC>
  <Resources>
    <Disks>
      <Disk>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Partition></Partition>
        <Reserved></Reserved>
        <Quota></Quota>
        <Used></Used>
        <Available></Available>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Disk>
    </Disks>
  </Resources>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	Disks
Table type	Multi-instance table
Row name	Disk
Restrictions	Default MDC can query information of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of disk resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Partition	Instance name of disk resource	Index	String. Length: 1 to 31 characters.	N/A
Reserved	reserve resources of disk (KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the MDC doesn't have reserve resource of disk.
Quota	The total limit resources of disk (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maximum of disk resource.
Used	Current usage of disk resources (KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of disk(KB)	N/A	Unsigned integer.	The minimum between (Quota-Used) and idle resource of disk.
ReservedRatio	reserve resources of disk(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of disk(%)	N/A	Positive integer. Value range: 1 to 100.	N/A

MDC/Resources/Memories

This table contains memory information.

XML structure

```
<MDC>
  <Resources>
    <Memories>
      <Memory>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Reserved></Reserved>
        <Quota></Quota>
        <Used></Used>
        <Available></Available>
        <ReservedRatio></ReservedRatio>
        <QuotaRatio></QuotaRatio>
      </Memory>
    </Memories>
  </Resources>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Memories
Table type	Multi-instance table
Row name	Memory
Restrictions	Default MDC can query information of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of memory resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Reserved	reserve resources of memory (KB)	N/A	Unsigned integer.	Limit minimum of disk resource. 0 means the MDC doesn't have reserve resource of memory.
Quota	The total limit resources of memory (KB)	N/A	Unsigned integer. Value range: 0 to 4294967295.	Limit maximum of disk resource.
Used	Current usage of memory resources (KB)	N/A	Unsigned integer.	N/A
Available	Current available resources of memory(KB)	N/A	Unsigned integer.	The minimum between (Quota-Used) and idle resource of disk.
ReservedRatio	reserve resources of memory(%)	N/A	Unsigned integer. Value range: 0 to 100.	Not support yet.
QuotaRatio	The total limit resources of memory(%)	N/A	Unsigned integer. Value range: 1 to 100.	N/A

MDC/Resources/CPUs

This table contains cpu information.

XML structure

```

<MDC>
  <Resources>
    <CPUs>
      <CPU>
        <MDCID></MDCID>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Weight></Weight>
        <Usage></Usage>
      </CPU>
    </CPUs>
  </Resources>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	CPUs
Table type	Multi-instance table
Row name	CPU
Restrictions	Default MDC can query information of all MDCs. Non-default MDC can only query the current MDC's information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Weight	CPU weight-maximum of available resources of CPU (weight)	N/A	Positive integer.	Limit maximum of cpu resource. Default:Each MDC has a CPU weight of 10.
Used	Current usage of CPUresources (%)	N/A	Unsigned integer. Value range: 0 to 100.	N/A

MDC/LocationEntitys

This table contains location state.

XML structure

```
<MDC>
  <LocationEntitys>
    <LocationEntity>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <State></State>
```

```

    </LocationEntity>
  </LocationEntitys>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	LocationEntitys
Table type	Multi-instance table
Row name	LocationEntity
Restrictions	Information of BladeControllerTeam table will be changed to c-s-c and display in LocationEntitys table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location:Authorize the MDC to use the interface cards. Default: All interface cards of the device belong to the default MDC.

MDC/AllocationIdentities

This table contains physical interface.

XML structure

```

<MDC>
  <AllocationIdentities>
    <AllocationIdentity>
      <PhysicalIndex></PhysicalIndex>
    </AllocationIdentity>
  </AllocationIdentities>
</MDC>

```



```

    <IfName></IfName>
    <AllocationIdentity></AllocationIdentity>
  </AllocationIdentity>
</AllocationIdentities>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	AllocationIdentities
Table type	Multi-instance table
Row name	AllocationIdentity
Restrictions	Default MDC can query information of all interface group. Non-default MDC can only query the current MDC's interface group.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index of an interface	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
AllocationIdentity	Group Identifier	N/A	String. Length: 1 to 255 characters.	The interfaces in a group must be assigned to the same MDC at the same time or removed from an MDC at the same time.

MDC/InterfaceAllocations

This table contains MDC of interface.

XML structure

```

<MDC>
  <InterfaceAllocations>
    <InterfaceAllocation>
      <PhysicalIndex></PhysicalIndex>
      <IfName></IfName>
      <MDCID></MDCID>
    </InterfaceAllocation>
  </InterfaceAllocations>
</MDC>

```

```

    </InterfaceAllocations>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	InterfaceAllocations
Table type	Multi-instance table
Row name	InterfaceAllocation
Restrictions	Default MDC can query information of all interface. Non-default MDC can only query the current MDC's interface.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PhysicalIndex	Entity index of an interface	Index	Unsigned integer.	N/A
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters.	N/A
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.

MDC/Allocations

This table contains physical interface.

XML structure

```

<MDC>
  <Allocations>
    <Allocation>
      <MDCID></MDCID>
      <InterfaceList></InterfaceList>
    </Allocation>
  </Allocations>
</MDC>

```

Table description

Item	Description
Feature name	MDC
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	Only support default MDC.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC ID of interface	N/A	Unsigned integer.	The value range depends on the device model.
InterfaceList	List of interfaces	N/A	String. Length: 1 to 32767 characters.	Different interfaces combinations(a single interface or interface list)are separated by comma',',interface lists are separated by ' to '(There is a space on both sides of the word 'to'). reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48

MDC/Locations

This table contains location state.

XML structure

```
<MDC>
  <Locations>
    <Location>
      <MDCID></MDCID>
      <Chassis></Chassis>
      <Slot></Slot>
      <State></State>
    </Location>
  </Locations>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	Locations
Table type	Multi-instance table
Row name	Location
Restrictions	Only support default MDC. Blade controllers must be located by BladeControllerTeam table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
Chassis	Chassis number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot number of CPU resource	Index	Unsigned integer. Value range: 0 to 65535.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the interface cards.

MDC/LocationBladeControllerTeam

This table contains location state of BladeControllerTeam.

XML structure

```
<MDC>
  <LocationBladeControllerTeams>
    <LocationBladeControllerTeam>
      <MDCID></MDCID>
      <BladeControllerTeam></BladeControllerTeam>
      <State></State>
    </LocationBladeControllerTeam>
  </LocationBladeControllerTeams>
</MDC>
```

Table description

Item	Description
Feature name	MDC
Table name	LocationBladeControllerTeams
Table type	Multi-instance table
Row name	LocationBladeControllerTeam
Restrictions	Only support default MDC.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MDCID	MDC index	Index	Unsigned integer.	The value range depends on the device model.
BladeControllerTeam	BladeControllerTeam ID	Index	Unsigned integer. Value range: 1 to 256.	N/A
State	Configure State of location	N/A	Enumeration: 1: location 2: undo location	Location: Authorize the MDC to use the resource of BladeControllerTeams.

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XML structure	5
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Columns	6

MGROUP

MGROUP/Groups

This table contains information about mirroring groups.

XML structure

```
<MGROUP>
  <Groups>
    <Group>
      <ID></ID>
      <Type></Type>
      <Sampler></Sampler>
    </Group>
  </Groups>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256	The range of mirroring group ID depends on the device model.
Type	Mirroring group type.	N/A	Enumeration: • 1—Local. • 2—Remote-source. • 3—Remote-destination.	Required. Can not change the type if the mirroring group has been created.
Sampler	References the sampler to limit the volume of traffic to be mirrored.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Can not change this item if the mirroring group has been created. Support for this option depends on the device

Column name	Column description	Column type	Data type and restrictions	Remarks
				model.

MGROUP/MonitorPort

This table contains information about monitor port of mirroring groups.

XML structure

```

<MGROUP>
  <MonitorPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </MonitorPort>
</MGROUP>

```

Table description

Item	Description
Feature name	MGROUP
Table name	MonitorPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is local or remote destination, monitor port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of monitor port.	N/A	Unsigned integer.	Required. Can not change the port if the monitor port has been created.

MGROUP/ReflectorPort

This table contains information about reflector port of mirroring groups.

XML structure

```
<MGROUP>
  <ReflectorPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </ReflectorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ReflectorPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source, reflector port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of reflector port.	N/A	Unsigned integer.	Required. Can not change the port if the reflector port has been created.

MGROUP/EgressPort

This table contains information about egress port of mirroring groups.

XML structure

```
<MGROUP>
  <EgressPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </EgressPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	EgressPort
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source, egress port can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of egress port.	N/A	Unsigned integer.	Required. Can not change the port if the egress port has been created.

MGROUP/ProbeVlan

This table contains information about remote probe VLAN of mirroring groups.

XML structure

```
<MGROUP>
  <ProbeVlan>
    <Group>
      <ID></ID>
```

```

        <VlanID></VlanID>
    </Group>
</ProbeVlan>
</MGROUP>

```

Table description

Item	Description
Feature name	MGROUP
Table name	ProbeVlan
Table type	Multi-instance table
Row name	Group
Restrictions	When the type of mirroring group is remote source or remote destination, remote probe VLAN can be configured.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to 256.	The range of mirroring group ID depends on the device model.
VlanID	Probe VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	Required. Can not change the vlan if the probe vlan has been created.

MGROUP/SourcePorts

This table contains information about source ports of the mirroring group.

XML structure

```

<MGROUP>
  <SourcePorts>
    <SourcePort>
      <ID></ID>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </SourcePort>
  </SourcePorts>
</MGROUP>

```

Table description

Item	Description
Feature name	MGROUP
Table name	SourcePorts
Table type	Multi-instance table
Row name	SourcePort
Restrictions	When the type of mirroring group is remote source or local, source port can be configured.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer. Value range: 1 to256.	The range of mirroring group ID depends on the device model.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Direction of source port.	N/A	Enumeration: • 1—Inbound. • 2—Outbound. • 3—Both.	Required

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Table description	2
Columns	2
MGROUP/ReflectorPort	2
XML structure	3
Table description	3
Columns	3
MGROUP/EgressPort	3
XML structure	3
Table description	4
Columns	4
MGROUP/ProbeVlan	4
XML structure	4
Table description	4
Columns	5
MGROUP/SourcePorts	5
XML structure	5
Table description	5
Columns	5
MGROUP/Capabilities	6
XML structure	6
Table description	6
Columns	6

MGROUP

MGROUP/Groups

This table contains information about mirroring groups.

XML structure

```
<MGROUP>
  <Groups>
    <Group>
      <ID></ID>
      <Type></Type>
      <Sampler></Sampler>
      <Status></Status>
    </Group>
  </Groups>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Type	Mirroring group type.	N/A	Enumeration: • 1—Local. • 2—Remote-source. • 3—Remote-destination.	N/A
Sampler	References the sampler to limit the volume of traffic to be mirrored.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Support for this option depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Mirroring group status.	N/A	Enumeration: 1—Incomplete. 2—Active.	N/A

MGROUP/MonitorPort

This table contains information about monitor port of mirroring groups.

XML structure

```

<MGROUP>
  <MonitorPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </MonitorPort>
</MGROUP>

```

Table description

Item	Description
Feature name	MGROUP
Table name	MonitorPort
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of monitor port.	N/A	Unsigned integer.	N/A

MGROUP/ReflectorPort

This table contains information about reflector port of mirroring groups.

XML structure

```
<MGROUP>
  <ReflectorPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </ReflectorPort>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ReflectorPort
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of reflector port.	N/A	Unsigned integer.	N/A

MGROUP/EgressPort

This table contains information about egress port of mirroring groups.

XML structure

```
<MGROUP>
  <EgressPort>
    <Group>
      <ID></ID>
      <Port></Port>
    </Group>
  </EgressPort>
</MGROUP>
```


Table description

Item	Description
Feature name	MGROUP
Table name	EgressPort
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
Port	Index of egress port.	N/A	Unsigned integer.	N/A

MGROUP/ProbeVlan

This table contains information about remote probe VLAN of mirroring groups.

XML structure

```
<MGROUP>
  <ProbeVlan>
    <Group>
      <ID></ID>
      <VlanID></VlanID>
    </Group>
  </ProbeVlan>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	ProbeVlan
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
VlanID	Probe VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MGROUP/SourcePorts

This table contains information about source ports of the mirroring group.

XML structure

```
<MGROUP>
  <SourcePorts>
    <SourcePort>
      <ID></ID>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </SourcePort>
  </SourcePorts>
</MGROUP>
```

Table description

Item	Description
Feature name	MGROUP
Table name	SourcePorts
Table type	Multi-instance table
Row name	SourcePort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Mirroring group ID.	Index	Unsigned integer Value range: 1 to256.	The range of mirroring group ID depends on the device model.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product.
Direction	Direction of source port.	N/A	Enumeration: 1—Inbound. 2—Outbound. 3—Both.	N/A

MGROUP/Capabilities

This table contains capability information about mirroring group.

XML structure

```

<MGROUP>
  <Capabilities>
    <MaxGroupNum></MaxGroupNum>
    <SourceType></SourceType>
    <VlanTagMode></VlanTagMode>
    <MultiMonitor></MultiMonitor>
    <Sampler></Sampler>
    <MultiMonitorInOneGroup></MultiMonitorInOneGroup>
  </Capabilities>
</MGROUP>

```

Table description

Item	Description
Feature name	MGROUP
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxGroupNum	Max mirroring group number.	N/A	Unsigned integer	The range of mirroring group ID depends on the device model.
SourceType	Mirroring group	N/A	Each bit represents a type as	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	source type.		follows: • 1—VLAN inbound • 2—VLAN outbound • 4—CPU inbound • 8—CPU outbound	
VlanTagMode	The VLAN tag on the message of the remote source mirroring group.	N/A	Each bit represents a type as follows: • 1—Reflector • 2—Egress • 4—Reflector inner	N/A
MultiMonitor	Whether one port can be the source port of multiple mirroring groups.	N/A	Boolean: • true—Support • false—Not support	N/A
Sampler	The mirroring group type which support sampler.	N/A	Each bit represents a type as follows: • 1—Local • 2—Source • 4—Remote destination	N/A
MultiMonitorInOneGroup	Whether one mirroring group supports multiple monitor ports.	N/A	Boolean: • true—Support • false—Not support	N/A

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MLDSnooping

MLDSnooping/Configuration

This table contains global Mld snooping information.

XML structure

```
<MLDSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set Mld snooping state globally.	N/A	Enumeration: • disable(default) • enable

MLDSnooping/VLANs

This table contains the MLD snooping information for vlans.

XML structure

```
<MLDSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
    </VLAN>
  </VLANs>
</MLDSnooping>
```

```

    <Enabled></Enabled>
    <Version></Version>
    <DropUnknown></DropUnknown>
    <Querier></Querier>
    <QueryInterval></QueryInterval>
    <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
    <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
  </VLAN>
</VLANs>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set MLD snooping state for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: 1(default) 2	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
Querier	Set MLD snooping querier for specified VLAN.	N/A	Enumeration: disable(default) enable	N/A
QueryInterval	Specify MLD snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 300.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GeneralQuerySourceAddr	Specify the source IP address of MLD general queries for specified VLAN.	N/A	Ipv6Address.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IP address for MLD group-specific queries for specified VLAN.	N/A	Ipv6Address.	Example: 1:1::1:1.

MLDSnooping/VSIs

This table contains the MLD snooping information for VSIs.

XML structure

```

<MLDSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    </VSI>
  </VSIs>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable MLD snooping for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: 1(default) 2	N/A
DropUnknown	Enable MLD snooping dropping unknown IPv6 multicast data for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: disable(default) enable	N/A
QueryInterval	Set the MLD snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of MLD general queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IP address for MLD multicast-address-specific queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.

MLDSnooping/FastLeavePorts

This table contains the MLD snooping fast leave information on ports.

XML structure

```

<MLDSnooping>
  <FastLeavePorts>
    <Interface>

```

```

    <IfIndex></IfIndex>
    <FastLeaveVlanList></FastLeaveVlanList>
  </Interface>
</FastLeavePorts>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
FastLeaveVlanList	Set MLD snooping fast leave vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

MLDSnooping/GroupLimitPorts

This table contains the MLD snooping group limit information on ports.

XML structure

```

<MLDSnooping>
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList></GroupLimitVlanList>
    </Interface>
  </GroupLimitPorts>
</MLDSnooping>

```

```

    </Interface>
  </GroupLimitPorts>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set MLD snooping group limit vlan-list on a port.	N/A	VlanRange.	You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Example: 1,2,3,5-8,10-20.

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MLDSnooping

MLDSnooping/Configuration

This table contains global Mld snooping information.

XML structure

```
<MLDSnooping>
  <Configuration>
    <Enabled></Enabled>
  </Configuration>
</MLDSnooping>
```

Table description

Item	Description
Feature name	MLDSnooping
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enabled	Set Mld snooping state globally.	N/A	Enumeration: • enable • disable

MLDSnooping/VLANs

This table contains the MLD snooping information for vlans.

XML structure

```
<MLDSnooping>
  <VLANs>
    <VLAN>
      <VLANID></VLANID>
      <Enabled></Enabled>
    </VLAN>
  </VLANs>
</MLDSnooping>
```

```

<Version></Version>
<DropUnknown></DropUnknown>
<Querier></Querier>
<QueryInterval></QueryInterval>
<GeneralQuerySourceAddr></GeneralQuerySourceAddr>
<SpecialQuerySourceAddr></SpecialQuerySourceAddr>
</VLAN>
</VLANs>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Enabled	Set MLD snooping state for specified VLAN.	N/A	Enumeration: enable disable	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: 1 2	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: enable disable	N/A
Querier	Set MLD snooping querier for specified VLAN.	N/A	Enumeration: enable disable	N/A
QueryInterval	Specify MLD snooping general query interval for specified VLAN.	N/A	Unsigned integer. Value range: 2 to 300.	N/A
GeneralQuerySourceAddr	Specify the source IP	N/A	Ipv6Address.	Example: 1:1::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of MLD general queries for specified VLAN.			
SpecialQuery SourceAddr	Specify the source IP address for MLD group-specific queries for specified VLAN.	N/A	Ipv6Address.	Example: 1:1::1:1.

MLDSnooping/VSIs

This table contains the MLD snooping information for VSIs.

XML structure

```

<MLDSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
      <QueryInterval></QueryInterval>
      <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
      <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    </VSI>
  </VSIs>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VSIs
Table type	Multi-instance table
Row name	VSI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Enabled	Enable MLD snooping for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: • 1 • 2	N/A
DropUnknown	Enable MLD snooping dropping unknown IPv6 multicast data for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: • disable • enable	N/A
QueryInterval	Set the MLD snooping general query interval for the specified VSI.	N/A	Unsigned integer. Value range: 2 to 31744.	N/A
GeneralQuerySourceAddr	Specify the source IP address of MLD general queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IP address for MLD multicast-address-specific queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.

MLDSnooping/FastLeavePorts

This table contains the MLD snooping fast leave information on ports.

XML structure

```
<MLDSnooping>
  <FastLeavePorts>
    <Interface>
```



```

    <IfIndex></IfIndex>
    <FastLeaveVlanList></FastLeaveVlanList>
  </Interface>
</FastLeavePorts>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	FastLeavePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
FastLeaveVlanList	Set MLD snooping fast leave vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

MLDSnooping/GroupLimitPorts

This table contains the MLD snooping group limit information on ports.

XML structure

```

<MLDSnooping>
  <GroupLimitPorts>
    <Interface>
      <IfIndex></IfIndex>
      <Limit></Limit>
      <GroupLimitVlanList></GroupLimitVlanList>
    </Interface>
  </GroupLimitPorts>

```

</MLDSnooping>

Table description

Item	Description
Feature name	MLDSnooping
Table name	GroupLimitPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Limit	Sets the maximum number of multicast groups that a port can join.	Index	Unsigned integer. Value range: 0 to 4294967295.	N/A
GroupLimitVlanList	Set MLD snooping group limit vlan-list on a port.	N/A	VlanRange.	Example: 1,2,3,5-8,10-20.

MLDSnooping/IPv6Layer2MulticastGroups

This table contains information about Layer 2 IPv6 multicast groups.

XML structure

```
<MLDSnooping>
  <IPv6Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
```

```

    </VLAN>
  </IPv6Layer2MulticastGroups>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	IPv6Layer2MulticastGroups
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
GroupIpAddr	Multicast group.	Index	Ipv6Address.	N/A
SourceIpAddr	Multicast source.	Index	Ipv6Address.	N/A
IfIndex	IfIndex.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

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MPLS

MPLS/ResetTETunnelStatistics

This table is used to reset TE tunnel statistics.

XML structure

```
<MPLS>
  <ResetTETunnelStatistics>
    <ResetTETunnelStatistic>
      <TunnelID></TunnelID>
    </ResetTETunnelStatistic>
  </ResetTETunnelStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	ResetTETunnelStatistics
Table type	Single-instance table
Row name	ResetTETunnelStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	The tunnel interface number

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XML structure	12
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MPLS

MPLS/Base

This table contains global MPLS information.

XML structure

```
<MPLS>
  <Base>
    <LSRID></LSRID>
  </Base>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSRID	The LSR ID.	N/A	String, dotted decimal notation.	N/A

MPLS/Interfaces

This table contains MPLS interface information.

XML structure

```
<MPLS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
```

</MPLS>

Table description

Item	Description
Feature name	MPLS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable MPLS	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```
<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>
      <PolicyName></PolicyName>
      <Sequence>
        <PrefLspType></PrefLspType>
        <LoadBalancingNum></LoadBalancingNum>
```



```

    </Sequence>
  </TunnelPolicy>
</TunnelPolicies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelPolicies
Table type	Multi-instance table
Row name	TunnelPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters.	N/A
Sequence	Sequence policy	N/A	Members include: - PrefLspType. - LoadBalancingNum.	The members of PrefLspType and LoadBalancingNum must be specified.
PrefLspType	Preferred LSP type	N/A	Enumeration: 0—LSP. 1—GRE. 2—CR-LSP.	Up to 3 repeats are allowed for PrefLspType. Support for GRE depends on the device model.
LoadBalancingNum	Load balancing number	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/PreferredTunnelPolicies

This table contains preferred tunnel information in a tunnel policy.

XML structure

```

<MPLS>
  <PreferredTunnelPolicies>
    <PreferredTunnelPolicy>
      <PolicyName></PolicyName>
    
```

```

    <TunnelType></TunnelType>
    <TunnelID></TunnelID>
  </PreferredTunnelPolicy>
</PreferredTunnelPolicies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	PreferredTunnelPolicies
Table type	Multi-instance table
Row name	PreferredTunnelPolicy
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters.	N/A
TunnelType	Preferred tunnel type.	Index	Enumeration: 0—TUNNEL. 1—TUNNEL-BUNDLE.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A

MPLS/TunnelMbdfs

This table contains MBFD Tunnel interface information.

XML structure

```

<MPLS>
  <TunnelMbdfs>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <Echo></Echo>
    </TunnelMbfd>
  </TunnelMbdfs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbdfs
Table type	Multi-instance table
Row name	TunnelMbdf
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A
Echo	Echo style of MBFD	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

MPLS/StaticEgressLSPs

This table contains static egress LSP information.

XML structure

```
<MPLS>
  <StaticEgressLSPs>
    <StaticEgressLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
    </StaticEgressLSP>
  </StaticEgressLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticEgressLSPs
Table type	Multi-instance table

Row name	StaticEgressLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer. The value range varies by device model.	No modification.

MPLS/StaticIngressLSPs

This table contains static ingress LSP information.

XML structure

```

<MPLS>
  <StaticIngressLSPs>
    <StaticIngressLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
      <DestAddress></DestAddress>
      <DestWildcardMask></DestWildcardMask>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
    </StaticIngressLSP>
  </StaticIngressLSPs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticIngressLSPs
Table type	Multi-instance table
Row name	StaticIngressLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified.
DestAddress	IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestWildcardMask must also be specified.
DestWildcardMask	Mask of the IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestAddress must also be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified. One and only one of this column or NextHop must be specified.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticTransitLSPs

This table contains static transit LSP information.

XML structure

```

<MPLS>
  <StaticTransitLSPs>
    <StaticTransitLSP>
      <LSPName></LSPName>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>

```

```

    </StaticTransitLSP>
  </StaticTransitLSPs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticTransitLSPs
Table type	Multi-instance table
Row name	StaticTransitLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	This column must be specified.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	

MPLS/StaticSRLSPs

This table contains static segment routing LSP information.

XML structure

```
<MPLS>
  <StaticSRLSPs>
    <StaticSRLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
    </StaticSRLSP>
  </StaticSRLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRLSPs
Table type	Multi-instance table
Row name	StaticSRLSP
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static segment routing LSP.	Index	String. Length: 1 to 15 characters.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/StaticSRAdjacencies

This table contains static segment routing adjacency information.

XML structure

```
<MPLS>
  <StaticSRAdjacencies>
    <StaticSRAdjacency>
      <AdjName></AdjName>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
    </StaticSRAdjacency>
  </StaticSRAdjacencies>
</MPLS>
```

```

    </StaticSRAdjacency>
  </StaticSRAdjacencies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRAdjacencies
Table type	Multi-instance table
Row name	StaticSRAdjacency
Restrictions	This table supports only global configurations.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdjName	Name of static segment routing adjacency.	Index	String. Length: 1 to 15 characters.	N/A
InLabel	Adjacency incoming label	N/A	Unsigned integer.	This column must be specified.
NextHop	Adjacency next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Adjacency outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticSRPrefixs

This table contains static segment routing prefix information.

XML structure

```
<MPLS>
  <StaticSRPrefixs>
    <StaticSRPrefix>
      <PrefixName></PrefixName>
      <DestAddress></DestAddress>
      <DestMask></DestMask>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutLabel></OutLabel>
    </StaticSRPrefix>
  </StaticSRPrefixs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRPrefixs
Table type	Multi-instance table
Row name	StaticSRPrefix
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Name of static segment routing prefix.	Index	String. Length: 1 to 15 characters.	N/A
DestAddress	IPv4 prefix destination address	Index	String, dotted decimal notation.	N/A
DestMask	Prefix destination address mask	Index	Unsigned integer.	N/A
InLabel	Prefix incoming label	Index	Unsigned integer.	This column must be specified.
NextHop	Prefix next hop address	Index	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified.
OutIfIndex	Prefix outgoing interface index	Index	Unsigned integer.	One and only one of this column and NextHop must be specified. Some versions

Column name	Column description	Column type	Data type and restrictions	Remarks
				support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OutLabel	Prefix outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/MPLSVRF

This table contains MPLS VRF information.

XML structure

```

<MPLS>
  <MPLSVRFs>
    <MPLSVRF>
      <VRF></VRF>
      <Statistics></Statistics>
    </MPLSVRF>
  </MPLSVRFs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	MPLSVRFs
Table type	Multi-instance table
Row name	MPLSVRF
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Statistics	Whether statistics is enabled for the VRF	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this column depends on the device model.

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MPLS

MPLS/Base

This table contains global MPLS information.

XML structure

```
<MPLS>
  <Base>
    <LSRID></LSRID>
    <StaticLabelMax></StaticLabelMax>
    <SupportGRE></SupportGRE>
    <SupportStaticSR></SupportStaticSR>
    <SRMaxLabelDepth></SRMaxLabelDepth>
  </Base>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSRID	The LSR ID	N/A	String, dotted decimal notation.	N/A
StaticLabelMax	The max label value for static lsp	N/A	Unsigned integer	N/A
SupportGRE	Whether GRE feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SupportStaticSR	Whether static segment routing with MPLS feature is supported	N/A	Boolean: true—Supported. false—Not supported.	N/A
SRMaxLabel	The max. label	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Depth	stack depths for segment routing with MPLS			

MPLS/Interfaces

This table contains MPLS interface information.

XML structure

```

<MPLS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	Applicable to only L3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable MPLS	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```

<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>
      <PolicyName></PolicyName>
      <Sequence>
        <PrefLspType></PrefLspType>
        <LoadBalancingNum></LoadBalancingNum>
      </Sequence>
    </TunnelPolicy>
  </TunnelPolicies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelPolicies
Table type	Multi-instance table
Row name	TunnelPolicy
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters..	N/A
Sequence	Sequence policy	N/A	Member include: - PrefLspType. - LoadBalancingNum.	N/A
PrefLspType	Preferred LSP type	N/A	Enumeration: 0—LSP.	Up to 3 repeats are allowed for PrefLspType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—GRE. 2—CR-LSP.	Support for GRE depends on the device model.
LoadBalancingNum	Load balancing number	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/PreferredTunnelPolicies

This table contains preferred tunnel information in a tunnel policy.

XML structure

```

<MPLS>
  <PreferredTunnelPolicies>
    <PreferredTunnelPolicy>
      <PolicyName></PolicyName>
      <TunnelType></TunnelType>
      <TunnelID></TunnelID>
      <PriorityLevel></PriorityLevel>
    </PreferredTunnelPolicy>
  </PreferredTunnelPolicies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	PreferredTunnelPolicies
Table type	Multi-instance table
Row name	PreferredTunnelPolicy
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of tunnel policy	Index	String. Length: 1 to 19 characters.	N/A
TunnelType	Preferred tunnel type.	Index	Enumeration: 0—TUNNEL. 1—TUNNEL-BUNDLE.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PriorityLevel	Priority level of preferred tunnel.	N/A	Unsigned integer.	A smaller number has a higher priority.

MPLS/LabelRanges

This table contains MPLS label ranges information.

XML structure

```

<MPLS>
  <LabelRanges>
    <ProtocolType></ProtocolType>
    <MinLabel></MinLabel>
    <MaxLabel></MaxLabel>
  </LabelRanges>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	LabelRanges
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol Type.	N/A	Enumeration: 0—STATIC.	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/LabelSegments

This table contains MPLS label segments information.

XML structure

```
<MPLS>
  <LabelSegments>
    <LabelSegment>
      <ProtocolType></ProtocolType>
      <MinLabel></MinLabel>
      <MaxLabel></MaxLabel>
    </LabelSegment>
  </LabelSegments>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	LabelSegments
Table type	Multi-instance table
Row name	LabelSegment
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolType	Protocol Type.	Index	Enumeration: 0—STATIC. 1—EGRESS. 2—DYNAMIC 3—L3VPN 4—VPWS 5—VPLS 6—SRGB	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/TunnelMbdfs

This table contains MBFD Tunnel interface information.

XML structure

```
<MPLS>
  <TunnelMbdfs>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <Echo></Echo>
    </TunnelMbfd>
  </TunnelMbdfs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbdfs
Table type	Multi-instance table
Row name	TunnelMbfd
Restrictions	Applicable to only MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Enable	Enable MBFD	N/A	Boolean: true—Enabled. false—Disabled.	N/A
Echo	Echo style of MBFD	N/A	Boolean: true—Enabled. false—Disabled.	N/A

MPLS/StaticEgressLSPs

This table contains static egress LSP information.

XML structure

```
<MPLS>
```

```

<StaticEgressLSPs>
  <StaticEgressLSP>
    <LSPName></LSPName>
    <InLabel></InLabel>
  </StaticEgressLSP>
</StaticEgressLSPs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticEgressLSPs
Table type	Multi-instance table
Row name	StaticEgressLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer. The value range varies by device model.	N/A

MPLS/StaticIngressLSPs

This table contains static ingress LSP information.

XML structure

```

<MPLS>
  <StaticIngressLSPs>
    <StaticIngressLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
      <DestAddress></DestAddress>
      <DestWildcardMask></DestWildcardMask>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
    </StaticIngressLSP>
  </StaticIngressLSPs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticIngressLSPs
Table type	Multi-instance table
Row name	StaticIngressLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	N/A
DestAddress	IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestWildcardMask must also be specified.
DestWildcardMask	Mask of the IPv4 LSP destination address	N/A	String, dotted decimal notation.	The member of DestAddress must also be specified.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	N/A
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticTransitLSPs

This table contains static transit LSP information.

XML structure

<MPLS>

```

<StaticTransitLSPs>
  <StaticTransitLSP>
    <LSPName></LSPName>
    <InLabel></InLabel>
    <OutLabel></OutLabel>
    <NextHop></NextHop>
    <OutIfIndex></OutIfIndex>
  </StaticTransitLSP>
</StaticTransitLSPs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticTransitLSPs
Table type	Multi-instance table
Row name	StaticTransitLSP
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static LSP.	Index	String. Length: 1 to 15 characters..	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	N/A
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	N/A
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticSRLSPs

This table contains static segment routing LSP information.

XML structure

```
<MPLS>
  <StaticSRLSPs>
    <StaticSRLSP>
      <LSPName></LSPName>
      <OutLabel></OutLabel>
    </StaticSRLSP>
  </StaticSRLSPs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRLSPs
Table type	Multi-instance table
Row name	StaticSRLSP
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LSPName	Name of static segment routing LSP.	Index	String. Length: 1 to 15 characters.	N/A
OutLabel	LSP outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/StaticSRAdjacencies

This table contains static segment routing adjacency information.

XML structure

```
<MPLS>
  <StaticSRAdjacencies>
    <StaticSRAdjacency>
      <AdjName></AdjName>
```



```

    <InLabel></InLabel>
    <NextHop></NextHop>
    <OutIfIndex></OutIfIndex>
  </StaticSRAdjacency>
</StaticSRAdjacencies>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRAdjacencies
Table type	Multi-instance table
Row name	StaticSRAdjacency
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdjName	Name of static segment routing adjacency.	Index	String. Length: 1 to 15 characters.	N/A
InLabel	Adjacency incoming label	N/A	Unsigned integer.	This column must be specified.
NextHop	Adjacency next hop address	N/A	String, dotted decimal notation.	One and only one of this column and OutIfIndex must be specified. One and only one of this column and NextHop must be specified.
OutIfIndex	Adjacency outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

MPLS/StaticSRPrefixs

This table contains static segment routing prefix information.

XML structure

```
<MPLS>
  <StaticSRPrefixs>
    <StaticSRPrefix>
      <PrefixName></PrefixName>
      <DestAddress></DestAddress>
      <DestMask></DestMask>
      <InLabel></InLabel>
      <NextHop></NextHop>
      <OutIfIndex></OutIfIndex>
      <OutLabel></OutLabel>
    </StaticSRPrefix>
  </StaticSRPrefixs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	StaticSRPrefixs
Table type	Multi-instance table
Row name	StaticSRPrefix
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixName	Name of static segment routing Prefix.	Index	String. Length: 1 to 15 characters.	N/A
DestAddress	IPv4 prefix destination address	Index	String, dotted decimal notation.	N/A
DestMask	Prefix destination address mask	Index	Unsigned integer.	N/A
InLabel	Prefix incoming label	Index	Unsigned integer.	This column must be specified.
NextHop	Prefix next hop address	Index	String, dotted decimal notation.	One and only one of this column and OutIfIndex

Column name	Column description	Column type	Data type and restrictions	Remarks
				must be specified.
				One and only one of this column or NextHop must be specified.
				Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OutIfIndex	Prefix outgoing interface index	Index	Unsigned integer.	For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OutLabel	Prefix outgoing label	N/A	Unsigned integer.	This column must be specified, and allow repeat.

MPLS/IPv4LSP

This table contains IPv4 LSP information.

XML structure

```

<MPLS>
  <IPv4LSP>
    <LSP>
      <Protocol></Protocol>
      <VrfIndex></VrfIndex>
      <Ipv4Prefix>
        <Ipv4Address/>
        <Ipv4PrefixLenth/>
      </Ipv4Prefix>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupNextHop></BackupNextHop>

```

```

    <BackupNHLFEID></BackupNHLFEID>
    <Octets></Octets>
    <HC0ctets></HC0ctets>
    <Packets></Packets>
    <Errors></Errors>
    <Discards></Discards>
  </LSP>
</IPv4LSP>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	IPv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: 0—Unknown. 1—Static LSP. 2—Static CRLSP. 3—LDP. 4—RSVP. 5—MP-BGP.	N/A
VrfIndex	Index of the VRF to which an IPv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
Ipv4Prefix	IPv4 LSP prefix	Index, data structure	Members include: - Ipv4Address. - Ipv4PrefixLenth.	N/A
Ipv4Address	IPv4 LSP prefix address	Index	String, dotted decimal notation.	N/A
Ipv4PrefixLenth	IPv4 LSP prefix length	Index	Unsigned integer. Value range: 1 to 32.	N/A
LSRType	LSR type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0—Ingress. 1—Transit. 2—Egress.	
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. - Inbound ID: 0. - Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: 0—Inbound information. 1—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i>. LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information,

Column name	Column description	Column type	Data type and restrictions	Remarks
				see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> . Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MPLS/TEv4LSP

This table contains IPv4 MPLS TE LSP information.

XML structure

```

<MPLS>
  <TEv4LSP>
    <LSP>
      <Protocol></Protocol>
      <VrfIndex></VrfIndex>
      <SrcAddress></SrcAddress>
      <DestAddress></DestAddress>
      <TunnelID></TunnelID>
      <LSPID></LSPID>

```

```

<Direction></Direction>
<LSRType></LSRType>
<ID></ID>
<InfoType></InfoType>
<InLabel></InLabel>
<OutLabel></OutLabel>
<OutIfIndex></OutIfIndex>
<NextHop></NextHop>
<NHLFEID></NHLFEID>
<BackupOutLabel></BackupOutLabel>
<BackupOutIfIndex></BackupOutIfIndex>
<BackupNextHop></BackupNextHop>
<BackupNHLFEID></BackupNHLFEID>
<Octets></Octets>
<HCOctets></HCOctets>
<Packets></Packets>
<Errors></Errors>
<Discards></Discards>
</LSP>
</TEv4LSP>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	TEv4LSP
Table type	Multi-instance table
Row name	LSP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: 0—Unknown. 1—Static LSP. 2—Static CRLSP. 3—LDP. 4—RSVP. 5—MP-BGP.	N/A
VrfIndex	Index of the VRF to which a TEv4 LSP belongs	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your

Column name	Column description	Column type	Data type and restrictions	Remarks
				product. For information about VRFindeX, see “Appendix” in L3vpn NETCONF XML API Data Reference.
SrcAddress	TEv4 LSP source address	Index	String, dotted decimal notation.	N/A
DestAddress	TEv4 LSP destination address	Index	String, dotted decimal notation.	N/A
TunnelID	TEv4 LSP tunnel ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
LSPID	TEv4 LSP ID	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Direction	TEv4 LSP direction	Index	Enumeration: 0—Unidirectional tunnel. 1—Forward LSP for a bidirectional tunnel. 2—Backward LSP for a bidirectional tunnel.	N/A
LSRType	LSR type	Index	Enumeration: 0—Ingress. 1—Transit. 2—Egress.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. - Inbound ID: 0. - Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: 0—Inbound information. 1—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For

Column name	Column description	Column type	Data type and restrictions	Remarks
				relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> . LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> . Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
HCOctets	Number of high	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	order octets		Value range: 0 to $2^{64} - 1$.	
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MPLS/StaticLSP

This table contains static LSP and static CRLSP information.

XML structure

```

<MPLS>
  <StaticLSP>
    <LSP>
      <Protocol></Protocol>
      <LspIndex></LspIndex>
      <LSRType></LSRType>
      <ID></ID>
      <InfoType></InfoType>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <OutIfIndex></OutIfIndex>
      <NextHop></NextHop>
      <NHLFEID></NHLFEID>
      <BackupOutLabel></BackupOutLabel>
      <BackupOutIfIndex></BackupOutIfIndex>
      <BackupNextHop></BackupNextHop>
      <BackupNHLFEID></BackupNHLFEID>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
    </LSP>
  </StaticLSP>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	StaticLSP
Table type	Multi-instance table
Row name	LSP
Restrictions	This table contains LSP information on the transit node and egress node. Static LSP information on the ingress node is stored in the IPv4LSP table. Static CRLSP information on the ingress node is stored in the TEv4LSP table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Protocol	LSP protocol type	Index	Enumeration: 0—Unknown. 1—Static LSP. 2—Static CRLSP. 3—LDP. 4—RSVP. 5—MP-BGP.	N/A
LspIndex	Static LSP index	Index	Unsigned integer. Length: 32 bits.	Typically, this column represents static LSP incoming label.
LSRType	LSR type	Index	Enumeration: 0—Ingress. 1—Transit. 2—Egress.	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID. - Inbound ID: 0. - Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: 0—Inbound information. 1—Outbound information.	N/A
InLabel	LSP incoming label	N/A	Unsigned integer.	LSP inbound information contains this column.
OutLabel	LSP outgoing label	N/A	Unsigned integer.	LSP outbound

Column name	Column description	Column type	Data type and restrictions	Remarks
				information contains this column.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> . LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NextHop	LSP next hop address	N/A	String, dotted decimal notation.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
NHLFEID	NHLFE ID	N/A	Unsigned integer.	LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupOutLabel	Backup LSP outgoing label	N/A	Unsigned integer.	Backup LSP outbound information contains this column.
BackupOutIfIndex	Backup LSP outgoing interface index	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> . Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNextHop	Backup LSP next hop address	N/A	String, dotted decimal notation.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
BackupNHLFEID	Backup NHLFE ID	N/A	Unsigned integer.	Backup LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.
Octets	Number of octets	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to $2^{64} - 1$.	
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MPLS/MPLSVRF

This table contains MPLS VRF information.

XML structure

```

<MPLS>
  <MPLSVRFs>
    <MPLSVRF>
      <VRF></VRF>
      <Statistics></Statistics>
    </MPLSVRF>
  </MPLSVRFs>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	MPLSVRFs
Table type	Multi-instance table
Row name	MPLSVRF
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Statistics	Whether statistics is enabled for the VRF	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A

MPLS/TE Tunnel Statistics

This table contains TE tunnel statistics information.

XML structure

```
<MPLS>
  <TETunnelStatistics>
    <TETunnelStatistics>
      <TunnelID></TunnelID>
      <ServiceClass></ServiceClass>
      <Octets></Octets>
      <HCOctets></HCOctets>
      <Packets></Packets>
      <Errors></Errors>
      <Discards></Discards>
      <Systime></Systime>
    </TETunnelStatistics>
  </TETunnelStatistics>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TETunnelStatistics
Table type	Multi-instance table
Row name	TETunnelStatistics
Restrictions	This table contains TE tunnel statistics information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID	Index	Unsigned integer.	The tunnel interface number
ServiceClass	The service class statistics of the MPLS TE tunnel interface.	Index	Unsigned integer. The value range varies by device model.	When service class no set, get all statistics of the TE tunnel.
Octets	Number of octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
HCOctets	Number of high order octets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Packets	Number of packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Errors	Number of error packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Discards	Number of discarded packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Systime	Time that elapsed after the device started up, in milliseconds	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

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MQC

MQC/ClearGlobalStatistic

This table is used to clear statistics of a global QoS policy.

XML structure

```
<MQC>
  <ClearGlobalStatistic>
    <Application>
      <Direction></Direction>
      <Clear></Clear>
    </Application>
  </ClearGlobalStatistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearGlobalStatistic
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	N/A	Enumeration: 0—Inbound. 1—Outbound.	If you do not specify this column, All directions are cleared.
Clear	Clear global policy statistics	N/A	This column must be empty	Required.

MQC/ClearVlanStatistic

This table is used to clear statistics of the QoS policy applied in VLAN.

XML structure

```
<MQC>
  <ClearVlanStatistic>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <Clear></Clear>
    </Application>
  </ClearVlanStatistic>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ClearVlanStatistic
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	If you do not specify this column, All VLANs are cleared.
Direction	Application direction	N/A	Enumeration: • 0—Inbound. • 1—Outbound.	If you do not specify this column, All directions are cleared.
Clear	Clear VLAN policy statistics	N/A	This column must be empty	Required.

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XML structure	18
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MQC/CAR	19
XML structure	19
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MQC

MQC/Classifiers

This table contains information about classifiers.

XML structure

```
<MQC>
  <Classifiers>
    <Classifier>
      <Name></Name>
      <Operator></Operator>
      <Description></Description>
    </Classifier>
  </Classifiers>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Classifiers
Table type	Multi-instance table
Row name	Classifier
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
Operator	Match operator of the traffic classifier	N/A	Enumeration: • 1—And. • 2—Or.	Required. When the Operator column is 1 , the traffic classifier matches the packets that match all its match criteria. When the Operator column is 2 , the traffic classifier matches the packets that match any of its match criteria.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Traffic classifier description.	N/A	String. Length: 1 to 127 characters.	N/A

MQC/Behaviors

This table contains information about behavior.

XML structure

```
<MQC>
  <Behaviors>
    <Behavior>
      <Name></Name>
    </Behavior>
  </Behaviors>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Behaviors
Table type	Multi-instance table
Row name	Behavior
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A

MQC/Policies

This table contains information about policy.

XML structure

```
<MQC>
  <Policies>
```

```

    <Policy>
      <Name></Name>
    </Policy>
  </Policies>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Policy name	Index	String. Length: 1 to 31 characters.	N/A

MQC/CBMaps

This table contains information about classifier-behavior association.

XML structure

```

<MQC>
  <CBMaps>
    <CMap>
      <PolicyName></PolicyName>
      <ClassifierName></ClassifierName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <InsertBeforeClassifierName></InsertBeforeClassifierName>
    </CMap>
  </CBMaps>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	CBMaps
Table type	Multi-instance table
Row name	CBMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassifierName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	Required.
Mode	Mode of the classifier-behavior association	N/A	Enumeration: 0—None. 2—Qppb. 16—Dcbx.	Required. When the Mode column is 0 , there is no restriction on the classifier-behavior association. When the Mode column is 2 , the classifier-behavior association applies only to QPPB. When the Mode column is 16 , the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
InsertBeforeClassifierName	Insert the new traffic class before an existing traffic class.	N/A	String. Length: 1 to 31 characters	N/A

MQC/Rules

This table contains information about rule.

XML structure

```
<MQC>
  <Rules>
    <Rule>
      <ClassName></ClassName>
      <RuleID></RuleID>
      <Not></Not>
      <PktType></PktType>
      <Acl>
        <IPv4Acl></IPv4Acl>
        <IPv6Acl></IPv6Acl>
        <Inner></Inner>
      </Acl>
      <IPv4Acl></IPv4Acl>
      <IPv6Acl></IPv6Acl>
      <SrcMac></SrcMac>
      <DestMac></DestMac>
      <ServiceVLANID></ServiceVLANID>
      <CustomerVLANID></CustomerVLANID>
      <ServiceDot1pList>
        <ServiceDot1p></ServiceDot1p>
      </ServiceDot1pList>
      <CustomerDot1pList>
        <CustomerDot1p></CustomerDot1p>
      </CustomerDot1pList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <InnerExpList>
        <InnerExp></InnerExp>
      </InnerExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <LocalPrecedenceList>
        <LocalPrecedence></LocalPrecedence>
      </LocalPrecedenceList>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <DropPriorityList>
        <DropPriority></DropPriority>
      </DropPriorityList>
      <QoSLocalID></QoSLocalID>
      <MplsLabelList>
        <MplsLabel></MplsLabel>
      </MplsLabelList>
```

```

<InnerMplsLabelList>
  <InnerMplsLabel></InnerMplsLabel>
</InnerMplsLabelList>
<PktLength>
  <Min></Min>
  <Max></Max>
</PktLength>
<MplsLabelRange>
  <LabelStart></LabelStart>
  <LabelEnd></LabelEnd>
</MplsLabelRange>
<InnerMplsLabelRange>
  <InnerLabelStart></InnerLabelStart>
  <InnerLabelEnd></InnerLabelEnd>
</InnerMplsLabelRange>
<RTTPort>
  <PortStart></PortStart>
  <PortEnd></PortEnd>
</RTTPort>
<Application></Application>
<ApplicationGroup></ApplicationGroup>
<Vxlan></Vxlan>
<VxlanAny></VxlanAny>
<TunnelID></TunnelID>
<VLANTag></VLANTag>
<TunnelDscpList>
  <TunnelDscp></TunnelDscp>
</TunnelDscpList>
</Rule>
</Rules>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	Only one match column can be configured once, Rule cannot be modified by ID. The delete/remove operation can only carry the ClassName and RuleID columns.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
RuleID	ID of the rule	Index	Unsigned integer	When the operate type of message is create , RuleID only can be configured 4294967295 or NextRuleID of Classifiers table.
Not	Whether the matches packets conform to the specified criterion	N/A	Boolean: true—Conform. false—Not conform.	Required.
PktType	Match the type of packet.	N/A	Enumeration: 1—Any. 2—IP. 3—IPv6. 4—Arp. 5—Bt. 6—Bridge. 7—Route.	When the Type column is 1, the rule matches all packets. When the Type column is 2, the rule matches IP protocol. When the Type column is 3, the rule matches IPv6 protocol. When the Type column is 4, the rule matches ARP protocol. When the Type column is 5, the rule matches bittorrent protocol. When the Type column is 6, the rule matches Layer 2 forwarded packets. When the Type column is 7, the rule matches Layer 3 forwarded packets.
Acl	Match ACL	Data structure	Members include: IPv4Acl. IPv6Acl. Inner.	IPv4Acl and IPv6Acl cannot be specified together. For information about how to configure, see "Appendix."
IPv4Acl	Match IPv4 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all .
IPv6Acl	Match IPv6 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters.	An ACL name must start with an English letter and cannot be all .

Column name	Column description	Column type	Data type and restrictions	Remarks
			ACL number: An unsigned integer in the range of 2000 to 3999.	
Inner	Match inner ACL.	N/A	Boolean: true—Conform. false—Not conform.	Matches the entries that describe the inner flags of a packet in an ACL.
IPv4Acl	Match IPv4 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all . This column and Acl cannot be specified together. For information about how to configure, see "Appendix."
IPv6Acl	Match IPv6 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be all . This column and Acl cannot be specified together. For information about how to configure, see "Appendix."
SrcMac	Match a source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DestMac	Match a destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ServiceVLANID	Match the service provider VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. you can specify up to 10 VLAN IDs or VLAN ID ranges.
CustomerVLANID	Match the customer VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2,3,5-8,10-20. you can specify up to 10 VLAN IDs or VLAN ID ranges.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
ServiceDot1p	Match the 802.1p priority of the service provider network.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 ServiceDot1p for a rule
CustomerDot1p	Match the 802.1p priority of the customer network.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 CustomerDot1p for a rule
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 Exp for a rule
InnerExp	Match inner MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 InnerExp for a rule
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 IPPrecedence for a rule
LocalPrecedence	Match local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	You can specify up to 8 LocalPrecedence for a rule
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 Dscp for a rule
DropPriority	Match drop precedence.	N/A	Unsigned integer. Value range: 0 to 2.	You can specify up to 3 DropPriority for a rule
QoSLocalID	Match local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
MplsLabel	Match MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	You can specify up to 8 MplsLabel for a rule
InnerMplsLabel	Match inner MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	You can specify up to 8 InnerMplsLabel for a rule
PktLength	Match packet length.	Data structure	Members include: Min. Max.	N/A
Min	The minimum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	Min cannot be bigger than Max .
Max	The maximum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MplsLabelRange	Match MPLS label range.	Data structure	Members include: LabelStart. LabelEnd.	The two members must both be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
LabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
LabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	LabelEnd must be bigger than LabelStart .
InnerMplsLabelRange	Match inner MPLS label range.	Data structure	Members include: • InnerLabelStart. • InnerLabelEnd.	The two members must both be specified.
InnerLabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerLabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	InnerLabelEnd must be bigger than InnerLabelStart .
RTPPort	Match RTP protocol port range.	Data structure	Members include: • PortStart. • PortEnd.	The two members must both be specified.
PortStart	Start RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	PortStart cannot be bigger than PortEnd .
PortEnd	End RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
Application	Match application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/Applications/Application/AppName.
ApplicationGroup	Match application group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/AppGroups/GroupInfo/GroupName.
Vxlan	Match vxlan ID.	N/A	Unsigned integer. Value range: 0 to 16777215.	It must be empty when the VxlanAny column is true .
VxlanAny	Match any vxlan ID.	N/A	Boolean: • true—Conform. • false—Not conform.	The Vxlan column must be specified when the VxlanAny column is false .
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 1023.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: • 1—None. • 2—Single-tagged. • 4—Double-tagged.	N/A
TunnelDscpList	Match Tunnel DSCP values.	Data structure	Members include: • TunnelDscp.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDscp	Match Tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 Dscp for a rule

MQC/Remark

This table contains information about marking action.

XML structure

```

<MQC>
  <Remark>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <Color></Color>
      <Value></Value>
    </Action>
  </Remark>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Remark
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of remark	Index	Enumeration: 0—CDot1pTrust. 1—Dscp. 2—IPPre. 3—MplsExp.	When the Type column is 0, configure an inner-to-outer tag priority copying action. When the Type column is 1, configure a DSCP

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—Dot1p. • 5—LocalID. • 6—LocalPre. • 7—DropPre. • 8—CVlanID. • 9—SVlanID. • 10—ImpositionMplsExp • 12—AtmClp. • 16—ServiceClass. • 17—TunnelDscp.	marking action. When the Type column is 2, configure an IP precedence marking action. When the Type column is 3, configure an EXP value marking action. When the Type column is 4, configure an 802.1p priority marking action. When the Type column is 5, configure the action of setting the specified local QoS ID for packets. When the Type column is 6, configure a local precedence marking action. When the Type column is 7, configure a drop priority marking action. When the Type column is 8, configure a CVLAN marking action. When the Type column is 9, configure a SVLAN marking action. When the Type column is 10, configure an EXP value marking action for added labels. When the Type column is 12, configure the action of setting the CLP bit for ATM cells. When the Type column is 16, configure the action of setting the service-class of MPLS traffic engineering. When the Type column is 17, configure a tunnel-DSCP marking action.
Color	The color of affected packets	Index	Enumeration: • 0—No color. • 1—Green. • 2—Yellow. • 3—Red.	Specifies different color packets for the priority marking action. Support for the green, red and yellow keyword depends on the device model. When- the Color column is 0, specifies all packets. When the Color column is 1, specifies green

Column name	Column description	Column type	Data type and restrictions	Remarks
				packets. When the Color column is 2, specifies yellow packets. When the Color column is 3, specifies red packets.
Value	The value of marking action	N/A	Unsigned integer.	Required when the Type column is 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16 or 17. When the Type column is 0, the value is invalid. When the Type column is 8 or 9, the value range is 1 to 4094. When the Type column is 7, the value range is 0 to 2. When the Type column is 5, the value range is 1 to 4095. When the Type column is 2, 3, 4, 6 or 10, the value range is 0 to 7. When the Type column is 1, the value range is 0 to 63. When the Type column is 12, the value range is 0 to 1. When the Type column is 16, the value range is 0 to 7 or a customized value. When the Type column is 17, the value range is 0 to 63.

MQC/Redirect

This table contains information about redirect.

XML structure

```

<MQC>
  <Redirect>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <TrackOap></TrackOap>
      <VLANID></VLANID>
      <VSI></VSI>
    
```

```

    <Nexthop>
      <VRF></VRF>
      <IPAddr></IPAddr>
      <IPAddrBackup></IPAddrBackup>
      <Track></Track>
      <TrackBackup></TrackBackup>
    </Nexthop>
  </Action>
</Redirect>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Redirect
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of redirect	Index	Enumeration: 1—CPU. 2—Interface. 3—VSI. 6—Nexthop	When the Type column is 1, redirect traffic to CPU. When the Type column is 2, redirect traffic to an interface. When the Type column is 3, redirect traffic to a virtual station interface. When the Type column is 6, redirect traffic to nexthop.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if Type is 2. Some versions support interface name. For relevant information, see the XSD document of your product.
TrackOap	Enable the traffic redirecting action to collaborate	N/A	Boolean: true—Enable.	The value of this column is valid if Type is 2 .

Column name	Column description	Column type	Data type and restrictions	Remarks
	with OAP		false—Disable.	
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if Type is 2 .
VSI	Name of VSI	N/A	String. Length: 1 to 31 characters.	Required when the Type column is 3 .
Nexthop	Nexthop	N/A	N/A	N/A
VRF	VRF instance name	N/A	String. Length: 0 to 31 characters.	The value of this column is valid if Type is 6 .
IPAddr	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if Type is 6 . For example, 1.1.1.1, or 1:1::1:1.
IPAddrBackup	Nexthop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if Type is 6 . For example, 1.1.1.1, or 1:1::1:1.
Track	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if Type is 6 .
TrackBackup	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if Type is 6 .

MQC/Filter

This table contains information about filtering action.

XML structure

```

<MQC>
  <Filter>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
    </Action>
  </Filter>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Filter

Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of filter	N/A	Enumeration: 1—Deny. 2—Permit.	Required.

MQC/AssuredForwarding

This table contains information about assured-forwarding queue.

XML structure

```

<MQC>
  <AssuredForwarding>
    <Action>
      <BehaviorName></BehaviorName>
      <Kbps></Kbps>
      <Pct></Pct>
      <RemainingPct></RemainingPct>
    </Action>
  </AssuredForwarding>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	AssuredForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	When the configuration way of Bandwidth is Kbps, the others can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is Pct, the others can't be configured at the same time.
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is RemainingPct, the others can't be configured at the same time.

MQC/ExpeditedForwarding

This table contains information about expedited-forwarding queue.

XML structure

```
<MQC>
  <ExpeditedForwarding>
    <Action>
      <BehaviorName></BehaviorName>
      <Bandwidth>
        <Kbps></Kbps>
        <CBS></CBS>
      </Bandwidth>
      <BandwidthPct>
        <Pct></Pct>
        <CBSRatio></CBSRatio>
      </BandwidthPct>
    </Action>
  </ExpeditedForwarding>
</MQC>
```

Table description

Item	Description
Feature name	MQC

Table name	ExpeditedForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Bandwidth	Specify the Bandwidth value in kbps	Data structure	Members include: Kbps. CBS.	When the configuration way of Bandwidth is Bandwidth, the Kbps must be specified, and another way can't be configured at the same time.
Kbps	value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
BandwidthPct	Specify the percentage of reserved bandwidth.	Data structure	Members include: Pct. CBS-Ratio.	When the configuration way of Bandwidth is BandwidthPct, the Pct must be specified, and another way can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
CBSRatio	CBS Ratio	N/A	Unsigned integer. Value range: 25 to 500.	The default value is 25.

MQC/WFQ

This table contains information about weighted fair queue.

XML structure

```

<MQC>
  <WFQ>
    <Action>
      <BehaviorName></BehaviorName>

```

```

        <QueueNum></QueueNum>
    </Action>
</WFQ>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	WFQ
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	The value is power of 2. This column can be specified null. If it is null, the value is default, and default value varies by device.

MQC/CAR

This table contains information about car action.

XML structure

```

<MQC>
  <CAR>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
    </Action>
  </CAR>
</MQC>

```

```

    </GreenAction>
    <YellowAction>
      <YellowActionType></YellowActionType>
      <YellowActionValue></YellowActionValue>
    </YellowAction>
    <RedAction>
      <RedActionType></RedActionType>
      <RedActionValue></RedActionValue>
    </RedAction>
  </Action>
</CAR>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	CAR
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Specify bandwidth Unit	N/A	Enumeration: 1—pps. 2—kpbs. 3—percent.	If this column is not configured, the default bandwidth unit is kpbs.
CIR	Committed information rate	N/A	Unsigned integer.	Required When BandwidthUnit is 3, the value range is 1 to 100.
CBS	Committed burst size	N/A	Unsigned integer.	When BandwidthUnit is 3, the value range is 50 to 2000.
EBS	Excess burst size	N/A	Unsigned integer.	If both CBS and PIR are not configured, EBS cannot be configured. When BandwidthUnit is 3, the value range is 0 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				2000.
PIR	Peak information rate	N/A	Unsigned integer.	When BandwidthUnit is 3, the value range is 1 to 100.
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType. GreenActionValue.	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Green Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark -prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When GreenActionType is 1, send the packet. When GreenActionType is 2, remark DSCP value of the packet and send it. When GreenActionType is 3, remark IP precedence of the packet and send it. When GreenActionType is 4, remark EXP of the MPLS packet and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType is 6, remark CLP bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, remark local precedence of the packet and send it. When GreenActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When GreenActionType is 1, 10 or 19, GreenActionValue is ignored. When GreenActionType is 6 or 7, GreenActionValue is 0~1. When GreenActionType is 2, GreenActionValue is 0~63. When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowAction	Specify behavior for yellow packets	Data structure	Members include: YellowActionType. YellowActionValue.	YellowActionValue is required when YellowActionType is not 1, 10 or 19.
YellowActionType	Yellow Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark -prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, remark local precedence of the packet and send it. When YellowActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When YellowActionType is 1, 10 or 19, YellowActionValue is ignored. When YellowActionType is 6 or 7, YellowActionValue is 0~1. When YellowActionType is 2, YellowActionValue is 0~63. When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: RedActionType. RedActionValue.	RedActionValue is required when RedActionType is not 1, 10 or 19.

Column name	Column description	Column type	Data type and restrictions	Remarks
RedActionType	Red Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark -prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When RedActionType is 1 , send the packet. When RedActionType is 2 , remark DSCP value of the packet and send it. When RedActionType is 3 , remark IP precedence of the packet and send it. When RedActionType is 4 , remark EXP of the MPLS packet and send it. When RedActionType is 5 , remark 802.1p priority value of the packet and send it. When RedActionType is 6 , remark CLP bit of the ATM packet and send it. When RedActionType is 7 , remark DE bit of the FR packet and send it. When RedActionType is 8 , remark local precedence of the packet and send it. When RedActionType is 10 , drop the packet. When GreenActionType is 19 , continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer. Value range: 0 to 63.	When RedActionType is 1, 10 or 19 , RedActionValue is ignored. When RedActionType is 6 or 7 , RedActionValue is 0~1. When RedActionType is 2 , RedActionValue is 0~63. When RedActionType is 3, 4, 5, 8 , RedActionValue is 0~7.

MQC/ReservedBandwidth

This table contains information about the maximum reserved bandwidth as a percentage of available bandwidth.

XML structure

<MQC>

```

<ReservedBandwidth>
  <Interface>
    <IfIndex></IfIndex>
    <Pct></Pct>
  </Interface>
</ReservedBandwidth>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	ReservedBandwidth
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
Pct	Specify the percentage of available bandwidth to be reserved	N/A	Unsigned integer. Value range: 1 to 100.	Required

MQC/Mirror

This table contains information about mirroring.

XML structure

```

<MQC>
  <Mirror>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
    </Action>
  </Mirror>
</MQC>

```

```

<IP>
  <DestIP></DestIP>
  <SrcIP></SrcIP>
  <DSCP></DSCP>
  <VLAN></VLAN>
  <VRF></VRF>
</IP>
<Mac></Mac>
<Board>
  <Chassis></Chassis>
  <Slot></Slot>
  <BackupChassis></BackupChassis>
  <BackupSlot></BackupSlot>
</Board>
<SamplerName></SamplerName>
</Action>
</Mirror>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Mirror
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of mirror	Index	Enumeration: 1—Interface. 2—CPU. 3—VLAN. 4—Slot. 5—Local.	When the Type column is 1, mirror to an interface. When the Type column is 2, mirror to CPU. When the Type column is 3, mirror to VLAN. When the Type column is 4, traffic is mirrored to a board. When the Type column is 5, traffic is mirrored to the board on which the

Column name	Column description	Column type	Data type and restrictions	Remarks
				mirrored traffic is received or sent out.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if Type is 1. Some versions support interface name. For relevant information, see the XSD document of your product.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if Type is 3.
IP	Specify IP for mirroring to interface with GRE format	Data structure	Members include: • DestIP • SrcIP • DSCP • VLAN • VRF	DestIP and SrcIP must both be specified. DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured. This structure is valid and optional if Type is 1.
DestIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Specify destination MAC for mirroring to interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of this column is valid and optional if Type is 1.
Board	Specify Board for mirroring to a board.	Data structure	Members include: • Chassis • Slot • BackupChassis • BackupSlot	If the device is a distributed device in standalone mode or a centralized IRF device, the slot must be specified. If the device supports mirroring packets to a backup slot, the BackupSlot can be specified. If the device is a distributed device in IRF mode, the chassis and slot must both be specified. If the device supports mirroring packets to a backup slot,

Column name	Column description	Column type	Data type and restrictions	Remarks
				the BackupChassis and BackupSlot can be specified. This structure is valid and optional if Type is 4.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupChassis	Backup chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupSlot	Backup slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model. The value of this column is valid and optional if Type is 1, 4, or 5.

MQC/GlobalPolicy

This table contains information about global QoS policies.

XML structure

```

<MQC>
  <GlobalPolicy>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </GlobalPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/VlanPolicy

This table contains information about QoS policies applied to VLANs.

XML structure

```

<MQC>
  <VlanPolicy>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </VlanPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	VlanPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/InterfacePolicy

This table contains information about QoS policies applied to interfaces.

XML structure

```

<MQC>
  <InterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </InterfacePolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	InterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Outbound.	
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/IfPolicyEnhance

This table contains information about QoS policies applied to interfaces in enhanced mode.

XML structure

```

<MQC>
  <IfPolicyEnhance>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </IfPolicyEnhance>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
PolicyName	Policy name	N/A	String.	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	

MQC/GlobalPolicyEnhance

This table contains information about global QoS policies in enhanced mode.

XML structure

```

<MQC>
  <GlobalPolicyEnhance>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
    </Application>
  </GlobalPolicyEnhance>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

MQC/Account

This table contains information about accounting action.

XML structure

```
<MQC>
  <Account>
    <Action>
      <BehaviorName></BehaviorName>
      <Byte></Byte>
      <Packet></Packet>
    </Action>
  </Account>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Account
Table type	Multi-instance table
Row name	Action
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Byte	Accounting in bytes	N/A	Boolean: true—Conform. false—Not conform.	N/A
Packet	Accounting in packets	N/A	Boolean: true—Conform. false—Not conform.	N/A

MQC/PostClassify

This table contains information about processing QoS after other modules in the outbound direction of an interface.

XML structure

```
<MQC>
  <PostClassify>
```

```

<Application>
  <IfIndex></IfIndex>
  <enable></enable>
</Application>
</PostClassify>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	PostClassify
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
enable	Enable	column	Boolean - true—Conform. - false—Not conform.	N/A

Appendix

This section describes how to configure an ACL rule and an inner ACL rule.

- There are two methods of configuring an ACL rule:

- Use the ACL group method.

```

<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>>false</Not>
      <Acl>
        <IPv4Acl>3000</IPv4Acl>
        <Inner>>false</Inner>
      </Acl>
    </Rule>
  </Rules>
</MQC>

```

- Use the IPv4 ACL node method.

```

<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>>false</Not>
      <IPv4Acl>3000</IPv4Acl>
    </Rule>
  </Rules>
</MQC>

```

- Configure an inner ACL rule.

```

<MQC>
  <Rules>
    <Rule>
      <ClassName>class</ClassName>
      <RuleID>0</RuleID>
      <Not>>false</Not>
      <Acl>
        <IPv4Acl>3000</IPv4Acl>
        <Inner>>true</Inner>
      </Acl>
    </Rule>
  </Rules>
</MQC>

```

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MQC

MQC/GlobalRunInfo

This table contains global operation status information.

XML structure

```
<MQC>
  <GlobalRunInfo>
    <ProcessingStatus></ProcessingStatus>
  </GlobalRunInfo>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalRunInfo
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ProcessingStatus	Global operation status	N/A	Enumeration: 1—Idle. 2—Busy.

MQC/AppRunInfo

This table contains policy application information.

XML structure

```
<MQC>
  <AppRunInfo>
    <AppRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
    </AppRunInfoEntry>
  </AppRunInfo>
</MQC>
```

```

    <AppDirection></AppDirection>
    <AppPolicyName></AppPolicyName>
    <ApplyStatus></ApplyStatus>
  </AppRunInfoEntry>
</AppRunInfo>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	AppRunInfo
Table type	Multi-instance table
Row name	AppRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global. 4—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Interface index if AppType is 1. Some versions support interface name. For relevant information, see the XSD document of your product. - VLAN ID in the range of 1 to 4094 if AppType is 2. 0 if AppType is 3. - Member ID (0 for a standalone device) if AppType is 4.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Slot number of the card if AppType is 4. 0 is AppType is not 4.
AppDirection	Application direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppPolicyName	Policy name	N/A	String. Length: 0 to 31 characters.	N/A
ApplyStatus	Application status	N/A	Enumeration: 1—Succeeded. 2—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 2 .

MQC/CBRunInfo

This table contains class-behavior association operation information.

XML structure

```

<MQC>
  <CBRunInfo>
    <CBRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <CBMapIndex></CBMapIndex>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <CBApplyStatus></CBApplyStatus>
    </CBRunInfoEntry>
  </CBRunInfo>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	CBRunInfo
Table type	Multi-instance table
Row name	CBRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	type		1—Interface. 2—VLAN. 3—Global. 4—COPP.	
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Interface index if AppType is 1. - VLAN ID in the range of 1 to 4094 if AppType is 2. 0 if AppType is 3. - Member ID (0 for a standalone device) if AppType is 4.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Slot number of the card if AppType is 4. 0 if AppType is not 4.
AppDirection	Application direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
ClassName	Traffic class name	N/A	String. Length: 0 to 31 characters.	
BehaviorName	Traffic behavior name	N/A	String. Length: 0 to 31 characters.	
CBApplStatus	Class-behavior association application status	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Succeeded partly.	If a class-behavior association fails to be applied on a card when the policy is applied globally or to a VLAN, the value of this field is 3.

MQC/AccountRunInfo

This table contains traffic statistics information.

XML structure

```

<MQC>
  <AccountRunInfo>
    <AccountRunInfoEntry>

```

```

    <AppType></AppType>
    <AppMainIndex></AppMainIndex>
    <AppSubIndex></AppSubIndex>
    <AppDirection></AppDirection>
    <CBMapIndex></CBMapIndex>
    <AccountPkts></AccountPkts>
    <AccountBytes></AccountBytes>
    <Accounttps></Accounttps>
    <Accountbps></Accountbps>
  </AccountRunInfoEntry>
</AccountRunInfo>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	AccountRunInfo
Table type	Multi-instance table
Row name	AccountRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global. 4—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Interface index if AppType is 1. - VLAN ID in the range of 1 to 4094 if AppType is 2. 0 if AppType is 3. - Member ID (0 for a standalone device) if AppType is 4.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: - Slot number of the card if AppType is 4. 0 is AppType is not 4.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppDirection	Application direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
AccountPkts	Traffic statistic in packets	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
AccountBytes	Traffic statistic in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
Accountpps	Traffic statistic in packets per second	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
Accountbps	Traffic statistic in bits per second	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

MQC/CARRunInfo

This table contains CAR operation information. Aggregate CAR and hierarchical CAR are not supported.

XML structure

```

<MQC>
  <CARRunInfo>
    <CARRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
      <AppSubIndex></AppSubIndex>
      <AppDirection></AppDirection>
      <CBMapIndex></CBMapIndex>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
    </CARRunInfoEntry>
  </CARRunInfo>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	CARRunInfo
Table type	Multi-instance table
Row name	CARRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: • 1—Interface. • 2—VLAN. • 3—Global. • 4—COPP.	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Interface index if AppType is 1. • VLAN ID in the range of 1 to 4094 if AppType is 2. • 0 if AppType is 3. • Member ID (0 for a standalone device) if AppType is 4.
AppSubIndex	Secondary index of the application	Index	Unsigned integer.	The value depends on the AppType column: • Slot number of the card if AppType is 4. • 0 if AppType is not 4.
AppDirection	Application direction	Index	Enumeration: • 1—Inbound. • 2—Outbound.	N/A
CBMapIndex	Class-behavior association index	Index	Unsigned integer.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst	N/A	Unsigned integer.	The value of this column depends on the device

Column name	Column description	Column type	Data type and restrictions	Remarks
	size			model.
PIR	Peak information rate	N/A	Unsigned integer.	The value of this column depends on the device model. If PIR is not configured, 0xFFFFFFFF is returned.
GreenPkts	Green packet statistic in packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
GreenBytes	Green packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
RedPkts	Red packet statistic in packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
RedBytes	Red packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
YellowPkts	Yellow packet statistic in packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.
YellowBytes	Yellow packet statistic in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support this statistic, 0xFFFFFFFFFFFFFFFF is returned.

MQC/Classifiers

This table contains information about classifiers.

XML structure

```

<MQC>
  <Classifiers>
    <Classifier>
      <Name></Name>
      <Operator></Operator>
      <Description></Description>
      <RuleNum></RuleNum>
      <DefineMode></DefineMode>
      <NextRuleID></NextRuleID>
    </Classifier>
  </Classifiers>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Classifiers
Table type	Multi-instance table
Row name	Classifier
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic Classifier name.	Index	String. Length: 1 to 31 characters.	N/A
Operator	Match operator of the traffic classifier	N/A	Enumeration: • 1—And. • 2—Or.	When the Operator column is 1 , the traffic classifier matches the packets that match all its match criteria. When the Operator column is 2 , the traffic classifier matches the packets that match any of its match criteria.
Description	Traffic classifier description.	N/A	String. Length: 1 to 127 characters.	N/A
RuleNum	Number of rules.	N/A	Unsigned integer.	N/A
DefineMode	Define Mode.	N/A	Enumeration: • 1—System defined. • 2—User defined.	N/A
NextRuleID	ID for create a new rule.	N/A	Unsigned integer.	N/A

MQC/Behaviors

This table contains information about behaviors.

XML structure

<MQC>

```

<Behaviors>
  <Behavior>
    <Name></Name>
    <ActionMask></ActionMask>
    <DefineMode></DefineMode>
  </Behavior>
</Behaviors>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Behaviors
Table type	Multi-instance table
Row name	Behavior
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionMask	Mask of action	N/A	Unsigned integer.	Action mask defines bit mask that it represents the action information of the behavior, defined below: ACCOUNT 0x02 FILTER 0x04 NEST 0x08 REMARK 0x10 REDIRECT 0x20 MIRROR 0x40 CAR 0x80 PRIMAP 0x100 GTS 0x200 AF 0x400 EF 0x800 WFQ 0x1000 WRED 0x2000 POLICY 0x4000 PKTRATE 0x8000 WEIGHT 0x10000
DefineMode	Define Mode.	N/A	Enumeration: 1—System defined. 2—User defined.	N/A

MQC/Policies

This table contains information about policies.

XML structure

```

<MQC>
  <Policies>
    <Policy>
      <Name></Name>
      <CBMapNum></CBMapNum>
      <DefineMode></DefineMode>
      <NextCBMapID></NextCBMapID>
    </Policy>
  </Policies>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Policy name	Index	String. Length: 1 to 31 characters.	N/A
CBMapNum	Number of class-behavior associations	N/A	Unsigned integer.	N/A
DefineMode	Define Mode.	N/A	Enumeration: • 1—System defined. • 2—User defined.	N/A
NextCBMapID	ID for create a new CBMap.	N/A	Unsigned integer.	N/A

MQC/CBMaps

This table contains information about class-behavior associations.

XML structure

```
<MQC>
  <CBMaps>
    <CBMap>
      <PolicyName></PolicyName>
      <ClassifierName></ClassifierName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <DefineMode></DefineMode>
    </CBMap>
  </CBMaps>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CBMaps
Table type	Multi-instance table
Row name	CBMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
ClassifierName	Traffic class name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Traffic behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • 0—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior or association. When the Mode column is 2, the classifier-behavior or association applies only to QPPB. When the Mode column is 16, the classifier-behavior or association applies only to the Data Center Bridging Exchange Protocol (DCBX).
DefineMode	Define Mode.	N/A	Enumeration: • 1—System defined. • 2—User defined.	N/A

MQC/Rules

This table contains information about rule.

XML structure

```
<MQC>
  <Rules>
    <Rule>
      <ClassName></ClassName>
      <RuleID></RuleID>
      <Not></Not>
      <PktType></PktType>
      <Acl>
        <IPv4Acl></IPv4Acl>
        <IPv6Acl></IPv6Acl>
        <Inner></Inner>
      </Acl>
      <IPv4Acl></IPv4Acl>
      <IPv6Acl></IPv6Acl>
      <SrcMac></SrcMac>
      <DestMac></DestMac>
      <ServiceVLANID></ServiceVLANID>
      <CustomerVLANID></CustomerVLANID>
      <ServiceDot1pList>
        <ServiceDot1p></ServiceDot1p>
      </ServiceDot1pList>
      <CustomerDot1pList>
        <CustomerDot1p></CustomerDot1p>
      </CustomerDot1pList>
      <ExpList>
        <Exp></Exp>
      </ExpList>
      <InnerExpList>
        <InnerExp></InnerExp>
      </InnerExpList>
      <IPPrecedenceList>
        <IPPrecedence></IPPrecedence>
      </IPPrecedenceList>
      <LocalPrecedenceList>
        <LocalPrecedence></LocalPrecedence>
      </LocalPrecedenceList>
      <DscpList>
        <Dscp></Dscp>
      </DscpList>
      <DropPriorityList>
        <DropPriority></DropPriority>
      </DropPriorityList>
      <QoSLocalID></QoSLocalID>
      <MplsLabelList>
        <MplsLabel></MplsLabel>
      </MplsLabelList>
```

```

<InnerMplsLabelList>
  <InnerMplsLabel></InnerMplsLabel>
</InnerMplsLabelList>
<PktLength>
  <Min></Min>
  <Max></Max>
</PktLength>
<MplsLabelRange>
  <LabelStart></LabelStart>
  <LabelEnd></LabelEnd>
</MplsLabelRange>
<InnerMplsLabelRange>
  <InnerLabelStart></InnerLabelStart>
  <InnerLabelEnd></InnerLabelEnd>
</InnerMplsLabelRange>
<RTPPort>
  <PortStart></PortStart>
  <PortEnd></PortEnd>
</RTPPort>
<Application></Application>
<ApplicationGroup></ApplicationGroup>
<Vxlan></Vxlan>
<VxlanAny></VxlanAny>
<TunnelID></TunnelID>
<VLANTag></VLANTag>
<TunnelDscpList>
  <TunnelDscp></TunnelDscp>
</TunnelDscpList>
</Rule>
</Rules>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Traffic classifier name	Index	String. Length: 1 to 31 characters.	N/A
RuleID	ID of the rule	Index	Unsigned integer	N/A
Not	Whether the matches packets conform to the specified criterion	N/A	Boolean: true—Conform. false—Not conform.	N/A
PktType	Match the type of packet.	N/A	Enumeration: 1—Any. 2—IP. 3—IPv6. 4—Arp. 5—Bt. 6—Bridge. 7—Route.	When the Type column is 1, the rule matches all packets. When the Type column is 2, the rule matches IP protocol. When the Type column is 3, the rule matches IPv6 protocol. When the Type column is 4, the rule matches ARP protocol. When the Type column is 5, the rule matches bittorrent protocol. When the Type column is 6, the rule matches Layer 2 forwarded packets. When the Type column is 7, the rule matches Layer 3 forwarded packets.
Acl	Match ACL	Data structure	Members include: IPv4Acl. IPv6Acl. Inner.	IPv4Acl and IPv6Acl cannot be specified together.
IPv4ACI	Match IPv4 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all .
IPv6ACI	Match IPv6 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be all .
Inner	Match inner ACL.	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			true—Conform. false—Not conform.	
IPv4ACL	Match IPv4 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all .
IPv6ACL	Match IPv6 ACL.	N/A	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be all .
SrcMac	Match a source MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
DestMac	Match a destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
ServiceVLANID	Match the service provider VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A
CustomerVLANID	Match the customer VLAN ID.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A
ServiceDot1p	Match the 802.1p priority of the service provider network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
CustomerDot1p	Match the 802.1p priority of the customer network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Exp	Match MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
InnerExp	Match inner MPLS EXP value.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
IPPrecedence	Match IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
LocalPrecedence	Match local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Dscp	Match DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DropPriority	Match drop precedence.	N/A	Unsigned integer. Value range: 0 to 2.	N/A
QoSLocalID	Match local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
MplsLabel	Match MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerMplsLabel	Match inner MPLS label.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
PktLength	Match packet length.	Data structure	Members include: • Min. • Max.	N/A
Min	The minimum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Max	The maximum packet length in bytes.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MplsLabelRange	Match MPLS label range.	Data structure	Members include: • LabelStart. • LabelEnd.	N/A
LabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
LabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerMplsLabelRange	Match inner MPLS label range.	Data structure	Members include: • InnerLabelStart.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			InnerLabelEnd.	
InnerLabelStart	Start Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
InnerLabelEnd	End Label Value.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RTPPort	Match RTP protocol port range.	Data structure	Members include: PortStart. PortEnd.	N/A
PortStart	Start RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
PortEnd	End RTP port number	N/A	Unsigned integer. Value range: 2000 to 65535.	N/A
Application	Match application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/Applications/Application/AppName.
ApplicationGroup	Match application group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	APR/AppGroups/GroupInfo/GroupName.
Vxlan	Match vxlan ID.	N/A	Unsigned integer. Value range: 0 to 16777215.	N/A
VxlanAny	Match any vxlan ID.	N/A	Boolean: true—Conform. false—Not conform.	N/A
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 1023.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: 1—None. 2—Single-tagged. 4—Double-tagged.	N/A
TunnelDscpList	Match Tunnel DSCP values.	Data structure	Members include: TunnelDscp.	N/A
TunnelDscp	Match Tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A

MQC/Remark

This table contains information about marking action.

XML structure

```
<MQC>
  <Remark>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <Color></Color>
      <Value></Value>
    </Action>
  </Remark>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Remark
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of remark	Index	Enumeration: 0—CDot1pTrust. 1—Dscp. 2—IPPre. 3—MplsExp. 4—Dot1p. 5—LocalID. 6—LocalPre. 7—DropPre. 8—CVlanID. 9—SVlanID. 10—ImpositionMplsExp. 12—AtmClp. 16—ServiceClass. 17—TunnelDscp.	When the Type column is 0, configure an inner-to-outer tag priority copying action. When the Type column is 1, configure a DSCP marking action. When the Type column is 2, configure an IP precedence marking action. When the Type column is 3, configure an EXP value marking action. When the Type column is 4, configure an 802.1p priority marking action. When the Type column is 5, configure the action of setting the specified local

Column name	Column description	Column type	Data type and restrictions	Remarks
				QoS ID for packets. When the Type column is 6, configure a local precedence marking action. When the Type column is 7, configure a drop priority marking action. When the Type column is 8, configure a CVLAN marking action. When the Type column is 9, configure a SVLAN marking action. When the Type column is 10, configure an EXP value marking action for added labels. When the Type column is 12, configure the action of setting the CLP bit for ATM cells. When the Type column is 16, configure the action of setting the service-class for MPLS traffic engineering. When the Type column is 17, configure a tunnel-DSCP marking action.
Color	The color of affected packets	Index	Enumeration: • 0—No color. • 1—Green. • 2—Yellow. • 3—Red.	Specify different color packets for the priority marking action. Support for the green, red and yellow keyword depends on the device model. When- the Color column is 0, specifies all packets. When the Color column is 1, specifies green packets. When the Color column is 2, specifies yellow packets. When the Color column is 3, specifies red packets.
Value	The value of marking action	N/A	Unsigned integer.	Required when the Type column is 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16 or 17. When the Type column is 0, the value is invalid. When the Type column is 8 or 9, the value range is 1

Column name	Column description	Column type	Data type and restrictions	Remarks
				to 4094. When the Type column is 7, the value range is 0 to 2. When the Type column is 5, the value range is 1 to 4095. When the Type column is 2, 3, 4, 6 or 10, the value range is 0 to 7. When the Type column is 1, the value range is 0 to 63. When the Type column is 12, the value range is 0 to 1. When the Type column is 16, the value range is 0 to 7 or a customized value. When the Type column is 17, the value range is 0 to 63.

MQC/Redirect

This table contains information about redirect.

XML structure

```

<MQC>
  <Redirect>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <Track0ap></Track0ap>
      <VLANID></VLANID>
      <VSI></VSI>
      <Nexthop>
        <VRF></VRF>
        <IPAddr></IPAddr>
        <IPAddrBackup></IPAddrBackup>
        <Track></Track>
        <TrackBackup></TrackBackup>
      </Nexthop>
    </Action>
  </Redirect>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Redirect
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of redirect	Index	Enumeration: 1—CPU. 2—Interface. 3—VSI. 6—Nexthop	When the Type column is 1, redirect traffic to CPU. When the Type column is 2, redirect traffic to an interface. When the Type column is 3, redirect traffic to a virtual station interface. When the Type column is 6, redirect traffic to nexthop.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid only when the Type column is 2 . Some versions support interface name. For relevant information, see the XSD document of your product.
TrackOap	Enable the traffic redirecting action to collaborate with OAP	N/A	Boolean: - true—Enable. - false—Disable.	The value of this column is valid only when the Type column is 2 .
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid only when the Type column is 2 .
VSI	Name of VSI	N/A	String. Length: 1 to 31 characters.	Required and valid only when the Type column is 3 .
Nexthop	Nexthop	N/A	N/A	N/A
VRF	VRF instance name	N/A	String. Length: 0 to 31 characters.	The value of this column is valid if Type is 6 .
IPAddr	Nexthop ip address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 6 .

Column name	Column description	Column type	Data type and restrictions	Remarks
			Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	For example, 1.1.1.1, or 1:1::1:1.
IPAddrBackup	Next hop ip address	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	The value of this column is valid if Type is 6 . For example, 1.1.1.1, or 1:1::1:1.
Track	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if Type is 6 .
TrackBackup	Track	N/A	Unsigned integer. Value range: 1 to 1024.	The value of this column is valid if Type is 6 .

MQC/Mirror

This table contains information about mirroring.

XML structure

```

<MQC>
  <Mirror>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <IP>
        <DestIP></DestIP>
        <SrcIP></SrcIP>
        <DSCP></DSCP>
        <VLAN></VLAN>
        <VRF></VRF>
      </IP>
      <Mac></Mac>
      <Board>
        <Chassis></Chassis>
        <Slot></Slot>
        <BackupChassis></BackupChassis>
        <BackupSlot></BackupSlot>
      </Board>
      <SamplerName></SamplerName>
    </Action>
  </Mirror>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Mirror
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of mirror	Index	Enumeration: 1—Interface. 2—CPU. 3—VLAN. 4—Slot. 5—Local.	When the Type column is 1, mirror to an interface. When the Type column is 2, mirror to CPU. When the Type column is 3, mirror to VLAN. When the Type column is 4, traffic is mirrored to a board. When the Type column is 5, traffic is mirrored to the board on which the mirrored traffic is received or sent out.
IfIndex	Interface index	Index	Unsigned integer.	The value of this column is valid if Type is 1 . Some versions support interface name. For relevant information, see the XSD document of your product.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	The value of this column is valid if Type is 3 .
IP	Specify IP for mirroring to interface with GRE format	Data structure	Members include: - DestIP - SrcIP - DSCP - VLAN - VRF	DestIP and SrcIP must both be specified. DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured. This structure is valid and optional if Type is 1.
DestIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.

Column name	Column description	Column type	Data type and restrictions	Remarks
DSCP	DSCP value	N/A	Unsigned integer. Value range: 0 to 63.	N/A
VLAN	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	VRF instance name	N/A	String. Length: 1 to 31 characters.	N/A
Mac	Specify destination MAC for mirroring to interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. The value of this column is valid and optional if Type is 1.
Board	Specify Board for mirroring to a board.	Data structure	Members include: - Chassis - Slot - BackupChassis - BackupSlot	If the device is a distributed device in standalone mode or a centralized IRF device, the slot must be specified. If the device supports mirroring packets to a backup slot, the BackupSlot can be specified. If the device is a distributed device in IRF mode, the chassis and slot must both be specified. If the device supports mirroring packets to a backup slot, the BackupChassis and BackupSlot can be specified. This structure is valid and optional if Type is 4.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupChassis	Backup chassis number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
BackupSlot	Backup slot number	N/A	Unsigned integer. Value range: 0 to 65535	N/A
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model. The value of this column is valid and optional if Type is 1, 4 or 5.

MQC/Filter

This table contains information about filtering action.

XML structure

```
<MQC>
  <Filter>
    <Action>
      <BehaviorName></BehaviorName>
      <Type></Type>
    </Action>
  </Filter>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Filter
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Type	Type of filter	N/A	Enumeration: 1—Deny. 2—Permit.	Required.

MQC/AssuredForwarding

This table contains information about assured-forwarding queue.

XML structure

```
<MQC>
  <AssuredForwarding>
    <Action>
      <BehaviorName></BehaviorName>
```

```

    <Kbps></Kbps>
    <Pct></Pct>
    <RemainingPct></RemainingPct>
  </Action>
</AssuredForwarding>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	AssuredForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	When the configuration way of Bandwidth is Kbps, the others can't be configured at the same time.
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is Pct, the others can't be configured at the same time.
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	When the configuration way of Bandwidth is RemainingPct, the others can't be configured at the same time.

MQC/ExpeditedForwarding

This table contains information about expedited-forwarding queue.

XML structure

```

<MQC>
  <ExpeditedForwarding>
    <Action>

```

```

    <BehaviorName></BehaviorName>
    <Bandwidth>
      <Kbps></Kbps>
      <CBS></CBS>
    </Bandwidth>
    <BandwidthPct>
      <Pct></Pct>
      <CBSRatio></CBSRatio>
    </BandwidthPct>
  </Action>
</ExpeditedForwarding>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	ExpeditedForwarding
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Bandwidth	Specify the Bandwidth value in kbps	Data structure	Members include: Kbps. CBS.	When the configuration way of Bandwidth is Bandwidth, the Kbps must be specified, and another way can't be configured at the same time.
Kbps	value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
BandwidthPct	Specify the percentage of reserved bandwidth.	Data structure	Members include: Pct. CBSRatio.	When the configuration way of Bandwidth is BandwidthPct, the Pct must be specified, and another way can't be configured at the same time.

Column name	Column description	Column type	Data type and restrictions	Remarks
Pct	Percentage of reserved bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
CBSRatio	CBS Ratio	N/A	Unsigned integer. Value range: 25 to 500.	The default value is 25.

MQC/WFQ

This table contains information about weighted fair queue.

XML structure

```

<MQC>
  <WFQ>
    <Action>
      <BehaviorName></BehaviorName>
      <QueueNum></QueueNum>
    </Action>
  </WFQ>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	WFQ
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	When the value is 0, the device model does not support configuring the QueueNum.

MQC/CAR

This table contains information about car action.

XML structure

```
<MQC>
  <CAR>
    <Action>
      <BehaviorName></BehaviorName>
      <BandwidthUnit></BandwidthUnit>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
    </Action>
  </CAR>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	CAR
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorNam	Traffic behavior	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
BandwidthUnit	Specify bandwidth Unit	N/A	Enumeration: 1—pps. 2—kpbs. 3—percent.	If this column is not configured, the default bandwidth unit is kpbs.
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType. GreenActionValue.	
GreenActionType	Green Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When GreenActionType is 1, send the packet. When GreenActionType is 2, remark DSCP value of the packet and send it. When GreenActionType is 3, remark IP precedence of the packet and send it. When GreenActionType is 4, remark EXP of the MPLS packet and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType is 6, remark CLP bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, remark local precedence of the packet and send it. When GreenActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When GreenActionType is 1 , 10 or 19 , GreenActionValue is invisible.

Column name	Column description	Column type	Data type and restrictions	Remarks
				When GreenActionType is 6 or 7, GreenActionValue is 0~1. When GreenActionType is 2, GreenActionValue is 0~63. When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: YellowActionType. YellowActionValue.	
YellowActionType	Yellow Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, remark local precedence of the packet and send it. When YellowActionType is 10, drop the packet. When YellowActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When YellowActionType is 1, 10 or 19, YellowActionValue is invisible. When YellowActionType is 6 or 7, YellowActionValue is 0~1. When YellowActionType

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 2 , YellowActionValue is 0~63. When YellowActionType is 3, 4, 5, 8 , YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: RedActionType. RedActionValue.	
RedActionType	Red Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When RedActionType is 1 , send the packet. When RedActionType is 2 , remark DSCP value of the packet and send it. When RedActionType is 3 , remark IP precedence of the packet and send it. When RedActionType is 4 , remark EXP of the MPLS packet and send it. When RedActionType is 5 , remark 802.1p priority value of the packet and send it. When RedActionType is 6 , remark CLP bit of the ATM packet and send it. When RedActionType is 7 , remark DE bit of the FR packet and send it. When RedActionType is 8 , remark local precedence of the packet and send it. When RedActionType is 10 , drop the packet. When RedActionType is 19 , continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When RedActionType is 1, 10 or 19 , RedActionValue is invisible. When RedActionType is 6 or 7 , RedActionValue is 0~1. When RedActionType is 2 , RedActionValue is 0~63. When RedActionType is 3, 4, 5, 8 , RedActionValue is 0~7.

MQC/ReservedBandwidth

This table contains information about the maximum reserved bandwidth as a percentage of available bandwidth.

XML structure

```
<MQC>
  <ReservedBandwidth>
    <Interface>
      <IfIndex></IfIndex>
      <Pct></Pct>
    </Interface>
  </ReservedBandwidth>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	ReservedBandwidth
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
Pct	Specify the percentage of available bandwidth to be reserved	N/A	Unsigned integer	N/A

MQC/GlobalPolicy

This table contains information about global QoS policies.

XML structure

```
<MQC>
  <GlobalPolicy>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </GlobalPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • 3—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 3 .

MQC/VlanPolicy

This table contains information about QoS policies applied to VLANs.

XML structure

```
<MQC>
  <VlanPolicy>
    <Application>
      <VLANID></VLANID>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </VlanPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	VlanPolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VALNID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • 3—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 3 .

MQC/InterfacePolicy

This table contains information about QoS policies applied to interfaces.

XML structure

```
<MQC>
  <InterfacePolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </InterfacePolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	InterfacePolicy
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • 3—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 3 .

MQC/IfPolicyCBMap

This table contains information about class-behavior associations running information applied to interfaces.

XML structure

```
<MQC>
  <IfPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
    </Interface>
  </IfPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: 0—None. 2—Qppb. 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: 1—Succeeded. 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/GlobalPolicyCBMap

This table contains information about class-behavior associations running information applied to global.

XML structure

```

<MQC>
  <GlobalPolicyCBMap>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>

```

```

    <MatchedPackets></MatchedPackets>
    <MatchedBytes></MatchedBytes>
  </Global>
</GlobalPolicyCMap>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyCMap
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: 0—None. 2—Qppb. 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior or association. When the Mode column is 2, the classifier-behavior or association applies only to QPPB. When the Mode column is 16, the classifier-behavior or association applies only to the Data Center Bridging Exchange Protocol (DCBX).

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Class-Behavior association application status	N/A	Enumeration: 1—Succeeded. 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/VLANPolicyCBMap

This table contains information about class-behavior associations running information applied to VLANs.

XML structure

```

<MQC>
  <VLANPolicyCBMap>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
    </VLAN>
  </VLANPolicyCBMap>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyCBMap
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: 0—None. 2—Qppb. 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: 1—Succeeded. 2—Failed.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/IfPolicyCar

This table contains information about car associations running information applied to interfaces.

XML structure

<MQC>

```

<IfPolicyCar>
  <Interface>
    <IfIndex></IfIndex>
    <Direction></Direction>
    <ClassName></ClassName>
    <CIR></CIR>
    <CBS></CBS>
    <EBS></EBS>
    <PIR></PIR>
    <GreenAction>
      <GreenActionType></GreenActionType>
      <GreenActionValue></GreenActionValue>
    </GreenAction>
    <YellowAction>
      <YellowActionType></YellowActionType>
      <YellowActionValue></YellowActionValue>
    </YellowAction>
    <RedAction>
      <RedActionType></RedActionType>
      <RedActionValue></RedActionValue>
    </RedAction>
    <GreenPkts></GreenPkts>
    <GreenBytes></GreenBytes>
    <YellowPkts></YellowPkts>
    <YellowBytes></YellowBytes>
    <RedPkts></RedPkts>
    <RedBytes></RedBytes>
  </Interface>
</IfPolicyCar>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyCar
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions		Remarks
IfIndex	Interface index	Index	Unsigned integer.		Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.		N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.		N/A
CIR	Committed information rate	N/A	Unsigned integer.		N/A
CBS	Committed burst size	N/A	Unsigned integer.		N/A
EBS	Excess burst size	N/A	Unsigned integer.		N/A
PIR	Peak information rate	N/A	Unsigned integer.		N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType GreenActionValue		
GreenActionType	Green Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When GreenActionType is 1, send the packet. When GreenActionType is 2, remark DSCP value of the packet and send it. When GreenActionType is 3, remark IP precedence of the packet and send it. When GreenActionType is 4, remark EXP of the MPLS packet and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType is 6, remark CLP	

Column name	Column description	Column type	Data type and restrictions	Remarks
				bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, remark local precedence of the packet and send it. When GreenActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When GreenActionType is 1, 10 or 19, GreenActionValue is invisible. When GreenActionType is 6 or 7, GreenActionValue is 0~1. When GreenActionType is 2, GreenActionValue is 0~63. When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • YellowActionType. • YellowActionValue.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • 1—pass. • 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass.	When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 10—discard. • 19—continue.	precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, remark local precedence of the packet and send it. When YellowActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowAction Value	Yellow Action Value	N/A	Unsigned integer.	When YellowActionType is 1, 10 or 19, YellowActionValue is invisible. When YellowActionType is 6 or 7, YellowActionValue is 0~1. When YellowActionType is 2, YellowActionValue is 0~63. When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.

Column name	Column description	Column type	Data type and restrictions	Remarks
RedAction	Specify behavior for red packets	Data structure	Members include: RedActionType. RedActionValue.	
RedActionType	Red Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When RedActionType is 1, send the packet. When RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it. When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, remark local precedence of the packet and send it. When RedActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When RedActionType is 1, 10 or 19, RedActionValue is invisible. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				RedActionType is 6 or 7, RedActionValue is 0~1. When RedActionType is 2, RedActionValue is 0~63. When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/IfPolicyAF

This table contains running information about assured-forwarding queue.

XML structure

```

<MQC>
  <IfPolicyAF>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <Bps></Bps>
      <RemainingPct></RemainingPct>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>

```

```

    </Interface>
  </IfPolicyAF>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyAF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
Bps	Bandwidth value in bps	N/A	Unsigned integer. Value range: 8 to 1,000.	N/A
RemainingPct	Percentage of remaining bandwidth.	N/A	Unsigned integer. Value range: 1 to 100.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/IfPolicyEF

This table contains running information about expedited-forwarding queue.

XML structure

```
<MQC>
  <IfPolicyEF>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <CBS></CBS>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
    </Interface>
  </IfPolicyEF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEF
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Kbps	Bandwidth value in kbps	N/A	Unsigned integer. Value range: 8 to 10,000,000.	N/A
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/IfPolicyWFQ

This table contains running information about weighted fair queue.

XML structure

```

<MQC>
  <IfPolicyWFQ>
    <Interface>
      <IfIndex></IfIndex>
      <ClassName></ClassName>
      <QueueNum></QueueNum>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
    </Interface>
  </IfPolicyWFQ>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyWFQ
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
QueueNum	Total queue number	N/A	Unsigned integer. Value range: 16 to 4096.	N/A
MatchedPackets	Matched Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedPackets	Enqueued Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EnqueuedBytes	Enqueued Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedPackets	Discarded Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DiscardedBytes	Discarded Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/IfPolicyEnhance

This table contains information about QoS policies applied to interfaces in enhanced mode.

XML structure

```
<MQC>  
  <IfPolicyEnhance>
```

```

<Application>
  <IfIndex></IfIndex>
  <Direction></Direction>
  <PolicyName></PolicyName>
  <Status></Status>
</Application>
</IfPolicyEnhance>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 3 .

MQC/IfPolicyEnhanceCBMap

This table contains information about class-behavior associations running information applied to interfaces in enhanced mode.

XML structure

```
<MQC>
  <IfPolicyEnhanceCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
    </Interface>
  </IfPolicyEnhanceCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyEnhanceCBMap
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: • 0—None. • 2—Qppb. • 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior or association. When the Mode column is 2, the classifier-behavior or association applies only to QPPB. When the Mode column is 16, the classifier-behavior or association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed.	N/A

MQC/GlobalPolicyEnhance

This table contains information about global QoS policies in enhanced mode.

XML structure

```

<MQC>
  <GlobalPolicyEnhance>
    <Application>
      <Direction></Direction>
      <PolicyName></PolicyName>
      <Status></Status>
    </Application>
  </GlobalPolicyEnhance>
</MQC>

```

Table description

Item	Description
Feature name	MQC

Item	Description
Table name	GlobalPolicyEnhance
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	N/A
Status	Application status	N/A	Enumeration: • 1—Succeeded. • 2—Failed. • 3—Succeeded partly.	If some class-behavior associations in the policy are applied successfully but some are not, the value of this column is 3 .

MQC/GlobalPolicyEnhanceCBMap

This table contains information about class-behavior associations running information applied to global in enhanced mode.

XML structure

```

<MQC>
  <GlobalPolicyEnhanceCBMap>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
    </Global>
  </GlobalPolicyEnhanceCBMap>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyEnhanceCBMap
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
BehaviorName	Behavior name	N/A	String. Length: 1 to 31 characters.	N/A
Mode	Mode of the class-behavior association	N/A	Enumeration: 0—None. 2—Qppb. 16—Dcbx.	When the Mode column is 0, there is no restriction on the classifier-behavior association. When the Mode column is 2, the classifier-behavior association applies only to QPPB. When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).
Status	Class-Behavior association application status	N/A	Enumeration: 1—Succeeded. 2—Failed.	N/A

MQC/Account

This table contains information about accounting action.

XML structure

```
<MQC>
  <Account>
    <Action>
      <BehaviorName></BehaviorName>
      <Byte></Byte>
      <Packet></Packet>
    </Action>
  </Account>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	Account
Table type	Multi-instance table
Row name	Action
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
Byte	Accounting in bytes	N/A	Boolean: true—Conform. false—Not conform.	N/A
Packet	Accounting in packets	N/A	Boolean: true—Conform. false—Not conform.	N/A

MQC/IfPolicyAccount

This table contains information about accounting running information applied to interfaces.

XML structure

```
<MQC>
  <IfPolicyAccount>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </Interface>
  </IfPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfPolicyAccount
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/VLANPolicyCar

This table contains information about car associations running information applied to VLANs.

XML structure

```

<MQC>
  <VLANPolicyCar>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </VLAN>
  </VLANPolicyCar>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyCar
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType GreenActionValue	
GreenActionType	Green Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When GreenActionType is 1 , send the packet. When GreenActionType is 2 , remark DSCP value of the packet and send it. When GreenActionType is 3 , remark IP precedence of the packet and send it. When GreenActionType is 4 , remark EXP of the MPLS packet

Column name	Column description	Column type	Data type and restrictions	Remarks
				and send it. When GreenActionType is 5, remark 802.1p priority value of the packet and send it. When GreenActionType is 6, remark CLP bit of the ATM packet and send it. When GreenActionType is 7, remark DE bit of the FR packet and send it. When GreenActionType is 8, remark local precedence of the packet and send it. When GreenActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When GreenActionType is 1, 10 or 19, GreenActionValue is invisible. When GreenActionType is 6 or 7, GreenActionValue is 0~1. When GreenActionType is 2, GreenActionValue is 0~63. When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • YellowActionType. • YellowActionValue.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • 1—pass.	When YellowActionType is 1 , send the

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, remark local precedence of the packet and send it. When YellowActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When YellowActionType is 1, 10 or 19, YellowActionValue is invisible. When YellowActionType is 6 or 7, YellowActionValue is 0~1. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				YellowActionType is 2, YellowActionValue is 0~63. When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: • RedActionType. • RedActionValue.	
RedActionType	Red Action Type	N/A	Enumeration: • 1—pass. • 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	When RedActionType is 1, send the packet. When RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it. When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, remark local precedence of the packet and send it. When RedActionType is 10, drop the packet. When GreenActionType

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When RedActionType is 1, 10 or 19, RedActionValue is invisible. When RedActionType is 6 or 7, RedActionValue is 0~1. When RedActionType is 2, RedActionValue is 0~63. When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/VLANPolicyAccount

This table contains information about accounting running information applied to VLANs.

XML structure

```

<MQC>
  <VLANPolicyAccount>
    <VLAN>
      <VLANID></VLANID>
      <Direction></Direction>
      <ClassName></ClassName>

```

```

    <Packets></Packets>
    <Bytes></Bytes>
    <pps></pps>
    <bps></bps>
  </VLAN>
</VLANPolicyAccount>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	VLANPolicyAccount
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VALNID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/GlobalPolicyCar

This table contains information about car associations running information applied to global.

XML structure

```
<MQC>
  <GlobalPolicyCar>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>
        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
      </GreenAction>
      <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
      </YellowAction>
      <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
      </RedAction>
      <GreenPkts></GreenPkts>
      <GreenBytes></GreenBytes>
      <YellowPkts></YellowPkts>
      <YellowBytes></YellowBytes>
      <RedPkts></RedPkts>
      <RedBytes></RedBytes>
    </Global>
  </GlobalPolicyCar>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyCar
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions		Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.		N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.		N/A
CIR	Committed information rate	N/A	Unsigned integer.		N/A
CBS	Committed burst size	N/A	Unsigned integer.		N/A
EBS	Excess burst size	N/A	Unsigned integer.		N/A
PIR	Peak information rate	N/A	Unsigned integer.		N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: GreenActionType GreenActionValue		
GreenActionType	Green Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.		When GreenActionType is 1 , send the packet. When GreenActionType is 2 , remark DSCP value of the packet and send it. When GreenActionType is 3 , remark IP precedence of the packet and send it. When GreenActionType is 4 , remark EXP of the MPLS packet and send it. When GreenActionType is 5 , remark 802.1p priority value of the packet and send it. When GreenActionType is 6 , remark CLP bit of the ATM packet and send it. When GreenActionType is 7 , remark DE bit of the FR packet and send it. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				GreenActionType is 8, remark local precedence of the packet and send it. When GreenActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When GreenActionType is 1, 10 or 19, GreenActionValue is invisible. When GreenActionType is 6 or 7, GreenActionValue is 0~1. When GreenActionType is 2, GreenActionValue is 0~63. When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • YellowActionType. • YellowActionValue.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • 1—pass. • 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	When YellowActionType is 1, send the packet. When YellowActionType is 2, remark DSCP value of the packet and send it. When YellowActionType is 3, remark IP precedence of the packet and send it. When YellowActionType is 4, remark EXP of the MPLS packet and send it. When

Column name	Column description	Column type	Data type and restrictions	Remarks
				YellowActionType is 5, remark 802.1p priority value of the packet and send it. When YellowActionType is 6, remark CLP bit of the ATM packet and send it. When YellowActionType is 7, remark DE bit of the FR packet and send it. When YellowActionType is 8, remark local precedence of the packet and send it. When YellowActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	When YellowActionType is 1, 10 or 19, YellowActionValue is invisible. When YellowActionType is 6 or 7, YellowActionValue is 0~1. When YellowActionType is 2, YellowActionValue is 0~63. When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: RedActionType. RedActionValue.	
RedActionType	Red Action Type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass.	When RedActionType is 1, send the packet. When

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it. When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, remark local precedence of the packet and send it. When RedActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionValue	Red Action Value	N/A	Unsigned integer.	When RedActionType is 1, 10 or 19, RedActionValue is invisible. When RedActionType is 6 or 7, RedActionValue is 0~1. When RedActionType is 2, RedActionValue

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 0~63. When RedActionType is 3, 4, 5, 8 , RedActionValue is 0~7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/GlobalPolicyAccount

This table contains information about accounting running information applied to global.

XML structure

```

<MQC>
  <GlobalPolicyAccount>
    <Global>
      <Direction></Direction>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </Global>
  </GlobalPolicyAccount>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalPolicyAccount

Item	Description
Table type	Multi-instance table
Row name	Global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/Capability

This table contains MQC capability information, and it is used to obtain MQC direction parameters.

XML structure

```

<MQC>
  <Capability>
    <MQCIfType></MQCIfType>
    <MQCVlanType></MQCVlanType>
    <MQCGlobalType></MQCGlobalType>
  </Capability>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	Capability
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MQCIfType	MQC interface type	N/A	Enumeration: 1—Inbound. 2—Outbound. 3—Both.	N/A
MQCVlanType	MQC VLAN type	N/A	Enumeration: 1—Inbound. 2—Outbound. 3—Both.	N/A
MQCGlobalType	MQC global type	N/A	Enumeration: 1—Inbound. 2—Outbound. 3—Both.	N/A

MQC/PostClassify

This table contains information about processing QoS after other modules running information applied to the outbound direction of an interfaces.

XML structure

```

<MQC>
  <PostClassify>
    <Application>
      <IfIndex></IfIndex>
      <enable></enable>
    </Application>
  </PostClassify>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	PostClassify
Table type	Multi-instance table
Row name	Application

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer	Some versions support interface name. For relevant information, see the XSD document of your product.
enable	Enable	Column	Boolean • true—Conform. • false—Not conform.	N/A

Contents

Mroute	1
Mroute/Ipv4Instances	1
XML structure	1
Table description	1
Columns	1

Mroute

Mroute/Ipv4Instances

This table contains IPv4 Mroute instance information.

XML structure

```
<Mroute>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
    </Instance>
  </Ipv4Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.

Contents

Mroute	1
Mroute/Ipv4Instances	1
XML structure	1
Table description	1
Columns	1
Mroute/Ipv4Mroutes	1
XML structure	1
Table description	2
Columns	2
Mroute/Ipv4OutIfs	2
XML structure	3
Table description	3
Columns	3

Mroute

Mroute/Ipv4Instances

This table contains IPv4 Mroute instances information.

XML structure

```
<Mroute>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
    </Instance>
  </Ipv4Instances>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.

Mroute/Ipv4Mroutes

This table contains IPv4 multicast route information.

XML structure

```
<Mroute>
  <Ipv4Mroutes>
    <MrouteEntry>
      <VRF></VRF>
    </MrouteEntry>
  </Ipv4Mroutes>
</Mroute>
```

```

    <GroupAddr></GroupAddr>
    <SourceAddr></SourceAddr>
    <InIfIndex></InIfIndex>
    <Uptime></Uptime>
    <Expires></Expires>
    <OutIfNum></OutIfNum>
  </MrouteEntry>
</Ipv4Mroutes>
</Mroute>

```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4Mroutes
Table type	Multi-instance table
Row name	MrouteEntry
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.
GroupAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
InIfIndex	Incoming Interface of the multicast route	N/A	Unsigned integer.	N/A
Uptime	Length of time since the multicast route was created.	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the multicast route.	N/A	Unsigned integer (in seconds).	N/A
OutIfNum	Total number of outgoing interfaces	N/A	Unsigned integer.	N/A

Mroute/Ipv4OutIfs

This table contains outgoing interface information of IPv4 multicast routes.

XML structure

```
<Mroute>
  <Ipv4OutIfs>
    <OutIf>
      <VRF></VRF>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <Uptime></Uptime>
      <Expires></Expires>
    </OutIf>
  </Ipv4OutIfs>
</Mroute>
```

Table description

Item	Description
Feature name	Mroute
Table name	Ipv4OutIfs
Table type	Multi-instance table
Row name	OutIf
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.
GroupAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 224.1.1.1.
SourceAddr	IPv4 address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
IfIndex	Outgoing Interface of the multicast route	Index	Unsigned integer.	N/A
Uptime	Length of time since the outgoing interface was added.	N/A	Unsigned integer (in seconds).	N/A
Expires	Remaining time of the outgoing interface.	N/A	Unsigned integer (in seconds).	N/A

Contents

NAT	1
NAT/ResetNatStaticLoadBalance	1
XML structure	1
Table description	1
Columns	1
NAT/ResetNatDynamicLoadBalance	1
XML structure	1
Table description	2
Columns	2

NAT

NAT/ResetNatStaticLoadBalance

Re-balance the load of static NAT on multiple CPUs

XML structure

```
<NAT>
  <ResetNatStaticLoadBalance>
    <Reset></Reset>
  </ResetNatStaticLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetNatStaticLoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions
Reset	Re-balance the load of static NAT.	This column must be empty.

NAT/ResetNatDynamicLoadBalance

Re-balance the load of dynamic NAT on multiple CPUs

XML structure

```
<NAT>
  <ResetNatDynamicLoadBalance>
    <Dynamic>
      <AddrGroupNumber></AddrGroupNumber>
      <Reset></Reset>
    </Dynamic>
  </ResetNatDynamicLoadBalance>
</NAT>
```

```
</ResetNatDynamicLoadBalance>  
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetNatDynamicLoadBalance
Table type	Single-instance table
Row name	Dynamic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Re-balance the load of dynamic NAT.	N/A	This column must be empty.
AddrGroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.

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NAT

NAT/AddrGroups

This table contains information about NAT address groups.

XML structure

```
<NAT>
  <AddrGroups>
    <AddrGroup>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <ExtendedBlockNumber></ExtendedBlockNumber>
      <StartPort></StartPort>
      <EndPort></EndPort>
    </AddrGroup>
  </AddrGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroups
Table type	Multi-instance table
Row name	AddrGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	To configure dynamic NAT444, you must configure port block for the referenced NAT address group. With dynamic NAT444 configured, when a private IP address initiates a connection to the public network, the NAT444 gateway assigns it a public IP address and a port block, and creates an entry for the mapping. For subsequent connections from the private IP address, the NAT444 gateway translates the private IP address to the mapped public IP address and the ports to ports in the mapped port block. In a NAT address group, the port block size cannot be larger than the number of ports in the port range. Configure this item before configuring <i>ExtendedBlockNumber</i>, deleting this item also deletes <i>ExtendedBlockNumber</i>.
ExtendedBlock Number	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	With this parameter specified, when a private IP address accesses the public network, but the ports in the mapped port block are all occupied, the NAT gateway extends port blocks for the private IP address. A user can contain up to <i>ExtendedBlockNumber</i> + 1 port blocks at the same time. If you want to configure this you must first configure the <i>PortBlockSize</i>.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	Set <i>StartPort</i> and <i>EndPort</i> to their default values to define a default port range. The <i>StartPort</i> cannot be greater than the <i>EndPort</i> . The number of ports in a port range cannot be smaller than the port block size.
EndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A

NAT/AddrGroupMembers

This table contains information about the NAT address group members.

XML structure

```

<NAT>
  <AddrGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMember>
  </AddrGroupMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i>. If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/InboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```

<NAT>
  <InboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <AutoAddRoute></AutoAddRoute>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </InboundDynamicRules>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	InboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	An ACL can be used by only one inbound dynamic NAT rule on an interface.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: - true—YES - false—NO(default).	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.

Column name	Column description	Column type	Data type and restrictions	Remarks
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: - true—YES - false—NO(default).	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether adds a route to the NAT address when address translation is performed for a packet.	N/A	Boolean: - true—YES - false—NO(default).	The output interface is the NAT interface and the next-hop is the source address before translation. If you do not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/OutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```

<NAT>
  <OutboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>

```

```

    <AddrGroupNumber></AddrGroupNumber>
    <VRF></VRF>
    <NoPAT></NoPAT>
    <Reversible></Reversible>
    <PortPreserved></PortPreserved>
    <RuleName></RuleName>
    <RulePriority></RulePriority>
  </Interface>
</OutboundDynamicRules>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	OutboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the nat inbound and nat outbound configurations. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO(default).	NO-PAT mode can't be configured without AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.

Column name	Column description	Column type	Data type and restrictions	Remarks
Reversible	Whether translates the destination address of a packet that originates from external hosts to the internal host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: - true—YES - false—NO(default).	This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: - true—YES - false—NO(default).	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/InboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for inbound static NAT.

XML structure

```

<NAT>
  <InboundStaticMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
      </LocalInfo>
    </Mapping>
  </InboundStaticMappings>
</NAT>

```

```

        <Ipv4PrefixLength></Ipv4PrefixLength>
    </LocalInfo>
    <ACLNumber></ACLNumber>
    <Reversible></Reversible>
    <RuleName></RuleName>
    <RulePriority></RulePriority>
</Mapping>
</InboundStaticMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: - GlobalVRF. - StartIpv4Address. - EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for inbound static NAT.
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address information	Data structure.	Members include: - GlobalVRF. - Ipv4Address. - Ipv4PrefixLength.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the internal network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for inbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: - true—YES - false—NO(default).	Support for this keyword depends on the device model. This column can only be configured when <i>ACLNumber</i> is also configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/OutboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for outbound static NAT.

XML structure

```

<NAT>
  <OutboundStaticMappings>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Mapping>
  </OutboundStaticMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	OutboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address pool information	Data structure.	Members include: - LocalVRF. - StartIpv4Address. - EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
GlobalInfo	External network address information	Data structure.	Members include: - GlobalVRF. - Ipv4Address. - Ipv4PrefixLength.	N/A
GlobalVRF	VRF of external address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An external network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the external network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for outbound static NAT.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	If you do not specify an ACL, the source addresses of all outgoing packets and the destination addresses of all incoming packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. The destination addresses of packets originating from external hosts to the internal are not translated. If you specify both an ACL and the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. If packets originating from external hosts to the internal are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO(default).	Support for this keyword depends on the device model. This column can only be configured when <i>ACLNumber</i> is also configured.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).

Column name	Column description	Column type	Data type and restrictions	Remarks
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/StaticOnInterfaces

This table contains the interfaces where static NAT is enabled.

XML structure

```

<NAT>
  <StaticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableStatic></EnableStatic>
    </Interface>
  </StaticOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	StaticOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableStatic	Whether enable static NAT on the interface	N/A	Boolean: - true—YES - false—NO(default).	N/A

NAT/ServerGroups

This table contains the information of NAT internal server groups.

XML structure

```

<NAT>
  <ServerGroups>
    <ServerGroup>
      <GroupNumber></GroupNumber>
    </ServerGroup>
  </ServerGroups>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroups
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	The internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/ServerGroupMembers

This table contains the information of members in the NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
    </GroupMember>
  </ServerGroupMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4Address	IP address of an internal server.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
PortNumber	Port number of an internal server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Weight	Weight of the internal server	N/A	Unsigned integer. Value range: 1 to 1000. Default: 100.	N/A

NAT/ServerOnInterfaces

This table contains information about mappings between the IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```
<NAT>
  <ServerOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalStartIpv4Address></LocalStartIpv4Address>
        <LocalEndIpv4Address></LocalEndIpv4Address>
        <LocalStartPortNumber></LocalStartPortNumber>
        <LocalEndPortNumber></LocalEndPortNumber>
        <LocalSrvGroupNumber></LocalSrvGroupNumber>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
    </Interface>
  </ServerOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ServerOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: - GlobalVRF. - GlobalStartIpv4Address. - GlobalEndIpv4Address. - GlobalStartPortNumber. - GlobalEndPortNumber. - GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The GlobalStartPortNumber cannot be greater than the GlobalEndPortNumber. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index, The IP address of the interface is used as the NAT address for the internal server.	Index	Unsigned integer.	Only loopback interfaces and " Ifindex " are supported. The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: • LocalVRF. • LocalStartIpv4Address. • LocalEndIpv4Address. • LocalStartPortNumber. • LocalEndPortNumber. • LocalSrvGroupNumber.	The number of addresses in the range must match that of the external port number range.
LocalVRF	VRF of internal address	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
LocalStartIpv4Address	Start IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalEndIpv4Address	End IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.6.
LocalStartPortNumber	Start port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	The <i>LocalStartPortNumber</i> cannot be greater than the <i>LocalEndPortNumber</i>. If they are the same, the internal port number range has only one port. The internal port number range can include a maximum of 255 ports.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalEndPort Number	End port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalSrvGroupNumber	The internal server group to which the internal server belongs.	N/A	Unsigned integer. Value range: 0 to 65535.	With this parameter, the load sharing NAT Server feature is configured. Support for the value range depends on the device model.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	If you specify an ACL, only packets permitted by the ACL can be translated by using the mapping. Support for this parameter depends on the device model.
Reversible	Whether reverse address translation is supported.	N/A	Boolean: • true—YES. false—NO (default).	Reverse address translation applies to connections actively initiated by internal hosts to the external host. It uses existing mappings to translate the destination address for packets of these connections if the packets are permitted by ACL reverse matching.

The following table describes the address-port mappings between an external network and an internal network for NAT Server. The mappings which is not listed is not supported and will be treated as configuration conflict.

Noun explanation:

Consecutive external addresses: *GlobalEndIpv4Address* is greater than *GlobalStartIpv4Address*.

Single external address: *GlobalEndIpv4Address* is equal to *GlobalStartIpv4Address*, or *GlobalEndIpv4Address* is null.

Consecutive external ports: *GlobalEndPortNumber* is greater than *GlobalStartPortNumber*.

Single external port: *GlobalEndPortNumber* is equal to *GlobalStartPortNumber*, or *GlobalEndPortNumber* is null.

Consecutive internal addresses: *LocalEndIpv4Address* is greater than *LocalStartIpv4Address*.

Single internal address: *LocalEndIpv4Address* is equal to *LocalStartIpv4Address*, or *LocalEndIpv4Address* is null.

Consecutive internal ports: *LocalEndPortNumber* is greater than *LocalStartPortNumber*.

Single internal port: *LocalEndPortNumber* is equal to *LocalStartPortNumber*, or *LocalEndPortNumber* is null.

External network	Internal network
An external address	An internal address.
An external address and an external port number	An internal address and an internal port number.

External network	Internal network
An external address and <i>N</i> consecutive external port numbers	An internal address and an internal port number.
	<i>N</i> consecutive internal addresses and an internal port number.
	An internal address and <i>N</i> consecutive internal port numbers.
<i>N</i> consecutive external addresses	An internal address.
	<i>N</i> consecutive internal addresses.
<i>N</i> consecutive external addresses and an external port number	An internal address and an internal port number.
	<i>N</i> consecutive external addresses and an internal port number.
	An internal address and <i>N</i> consecutive internal port numbers.
An external address and an external port number	An internal server group.
An external address and <i>N</i> consecutive external port numbers	
<i>N</i> consecutive external addresses and an external port number	

NAT/PortBlockGroups

This table contains the information about NAT port block groups.

XML structure

```

<NAT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
</NAT>

```

Table description

Item	Description
Feature name	NAT

Item	Description
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 256.	When you set a port block size, give consideration to the number of private IP addresses, the number of public IP addresses, and the port range. The port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	Set <i>GlobalStartPort</i> and <i>GlobalEndPort</i> to their default values to define a default port range. The <i>GlobalStartPort</i> cannot be greater than the <i>GlobalEndPort</i> . The port range must include all ports that the public IP addresses use for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 65535.	N/A

NAT/PortBlockGroupLocalMembers

This table contains the information of private IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupLocalMembers>
    <LocalMember>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </LocalMember>
  </PortBlockGroupLocalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupLocalMembers
Table type	Multi-instance table
Row name	LocalMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple private IP address members in a port block group, but they cannot overlap. Private IP address members in different port block groups can overlap. For static NAT444, in a port block group, the number of private IP addresses cannot be larger than the number of assignable port blocks. Otherwise, some private IP addresses cannot obtain port blocks.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF to which the private IP address member belong.	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the private IP address member does not belong to any VPN.
StartIpv4Address	Start IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specifies only one private IP address.

NAT/PortBlockGroupGlobalMembers

This table contains the information of public IP address members in NAT port block groups.

XML structure

```

<NAT>
  <PortBlockGroupGlobalMembers>
    <GlobalMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GlobalMember>
  </PortBlockGroupGlobalMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupGlobalMembers
Table type	Multi-instance table
Row name	GlobalMember
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a port block group, but they cannot overlap. Public IP address members in different port block groups can overlap. But the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in its port range by the port block size.
StartIpv4Address	Start IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specify only one public IP address.

NAT/OutboundPortBlockOnInterfaces

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```

<NAT>
  <OutboundPortBlockOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <GroupNumber></GroupNumber>
    </Interface>
  </OutboundPortBlockOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	OutboundPortBlockOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can apply multiple port block groups to one interface. After you apply a port block group to an interface, the system automatically computes the IP-to-port block mappings and creates entries for them. When a private IP address accesses the public network, the private IP address is translated to the mapped public IP address and the ports are translated to ports in the mapped port block.

NAT/DNSMappings

This table contains the mappings about the domain name of an internal server to the public IP address, public port number, and protocol type of the server.

XML structure

```
<NAT>
  <DNSMappings>
    <MapInfo>
```

```

    <Domain></Domain>
    <Protocol></Protocol>
    <Ipv4Address></Ipv4Address>
    <IfIndex></IfIndex>
    <PortNumber></PortNumber>
  </MapInfo>
</DNSMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	DNSMappings
Table type	Multi-instance table
Row name	MapInfo
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The domain name of an internal server.	Index	String, case-sensitive. Length: 1 to 253 characters.	A domain name is a dot-separated that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can contain at most 253 characters, and each separated string contains no more than 63 characters.
Protocol	The type of the protocol used by the internal server.	N/A	Enumeration: 6—TCP. 17—UDP.	This column is affirmatively chosen item.
Ipv4Address	The public IP address used by the internal server to provide services to the external network.	N/A	String, dotted decimal notation.	Example: 1.1.1.6. The Ipv4Address and IfIndex are two configuration modes, only one mode must be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	N/A	Unsigned integer.	Enables Easy IP to use the IP address of the interface specified by its index as the public address of the internal server. Only loopback interfaces are supported.
PortNumber	The public port number used by the internal server to provide services to the external network.	N/A	Unsigned integer. Value range: 1 to 65535.	This column is affirmatively chosen item.

NAT/ALG

This table contains the protocols for which NAT with ALG is enabled.

XML structure

```

<NAT>
  <ALG>
    <ALGInfo>
      <AppID></AppID>
      <EnableALG></EnableALG>
    </ALGInfo>
  </ALG>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 14. • 0—DNS • 1—FTP. • 2—ICMP-ERROR • 3—H.323 • 4—SIP • 5—TFTP • 6—RTSP • 7—SQLNET • 8—XDMCP • 9—ILS • 10—MGCP • 11—NBT • 12—PPTP • 13—RSH • 14—SCCP	Use ALG with NAT to translate the payload information to ensure the establishment of data connections. NAT translates IP address and port information in packet headers, and ALG processes the fields in application layer payloads. The packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.
EnableALG	Whether enable NAT with ALG.	N/A	Boolean: • true—YES • false—NO(default).	N/A

NAT/EIM

This table is about the mapping behavior mode for PAT.

XML structure

```

<NAT>
  <EIM>
    <EnableEIM></EnableEIM>
    <ACLNumber></ACLNumber>
  </EIM>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	EIM
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableEIM	Whether enable Endpoint-Independent Mapping (EIM).	N/A	Boolean: - true—YES - false—NO(default).	•Endpoint-Independent Mapping—EIM uses the same IP and port mapping for packets from the same source and port to any destination IP and port. An EIM entry is generated to record the IP and port mapping. This behavior allows packets from any external host to access the internal user by using the NAT address and port. This behavior facilitates communication among hosts that connect to different NAT gateways. •Address and Port-Dependent Mapping—Uses different IP and port mappings for packets with the same source IP and port to different destination IP addresses and ports. This behavior does not allow packets from an external host to be sent to any NAT address and port unless the internal host has previously sent a packet of the same protocol to that external host. This behavior is secure but inconvenient for communication among hosts connecting to different NAT gateways. This configuration takes effect only on outbound PAT. Address and Port-Dependent Mapping always applies to inbound PAT.

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Applies the NAT mapping behavior to packets that are permitted by the ACL. If no ACL is specified, the Endpoint-Independent Mapping applies to all packets. This field is available only when <i>EnableEIM</i> is set to true.

NAT/HairpinOnInterfaces

This table contains the interfaces where hairpin is enabled.

XML structure

```

<NAT>
  <HairpinOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableHairpin></EnableHairpin>
    </Interface>
  </HairpinOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	HairpinOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableHairpin	Whether enable hairpin on the interface	N/A	Boolean: - true—YES - false—NO(default).	NAT hairpin allows internal hosts behind the same NAT device to access each other only after they use the NAT addresses. NAT hairpin functions on the interface that connects the internal network and translates the source and destination IP addresses of a packet on the interface. NAT hairpin typically operates with NAT Server, outbound dynamic NAT, or outbound static NAT.

NAT/LogRule

This table contains NAT log configurations.

XML structure

```

<NAT>
  <LogRule>
    <GlobalLog>
      <EnableGlobalLog></EnableGlobalLog>
      <ACLNumber></ACLNumber>
    </GlobalLog>
    <EnableFlowBeginLog></EnableFlowBeginLog>
    <EnableFlowEndLog></EnableFlowEndLog>
    <ActiveFlowLog>
      <EnableActiveFlowLog></EnableActiveFlowLog>
      <Interval></Interval>
    </ActiveFlowLog>
    <EnablePortBlockAssignLog></EnablePortBlockAssignLog>
    <EnablePortBlockWithDrawLog></EnablePortBlockWithDrawLog>
    <EnableAlarmLog></EnableAlarmLog>
  </LogRule>
</NAT>

```

```

    </LogRule>
  </NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	LogRule
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLog	Global log configuration.	Data structure.	Members include: - EnableGlobalLog. - ACLNumber.	N/A
EnableGlobalLog	Whether enable the NAT logging function.	N/A	Boolean: - true—YES - false—NO(default).	Other column takes effect only after you enable NAT logging.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this command logs NAT flows that match the permit statements in the ACL. If no ACL is specified, this configuration logs all NATed data flows. This field is available only when <i>EnableGlobalLog</i> is set to true.
EnableFlowBeginLog	Whether enable logging for NAT session establishment events.	N/A	Boolean: - true—YES - false—NO(default).	When a NAT session is established, this function outputs a NAT log.
EnableFlowEndLog	Whether enable logging for NAT session removal events.	N/A	Boolean: - true—YES - false—NO(default).	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: - EnableActiveFlowLog. - Interval.	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: - true—YES - false—NO(default).	Configure this column must also configure the <i>Interval</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The interval for logging active NAT flows (minutes).	N/A	Unsigned integer. Value range: 10 to 20.	Configure <i>EnableActiveFlowLog</i> to true to configure this item.
EnablePortBlockAssignLog	Whether enable logging for port block assigning.	N/A	Boolean: - true—YES - false—NO(default).	N/A
EnablePortBlockWithdrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: - true—YES - false—NO(default).	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: - true—YES - false—NO(default).	N/A

NAT/HotBackup

This table contains NAT hot backuping configurations.

XML structure

```

<NAT>
  <HotBackup>
    <EnablePortBlock></EnablePortBlock>
  </HotBackup>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	HotBackup
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnablePortBlock	Whether enable hot backuping for port block.	N/A	Boolean: - true - false (default).	N/A

NAT/StaticLoadBalance

This table contains NAT static load balance configurations.

XML structure

```
<NAT>
  <StaticLoadBalance>
    <EnableStaticLoadBalance></EnableStaticLoadBalance>
  </StaticLoadBalance>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticLoadBalance
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaticLoadBalance	Whether enable load balance function for nat static configure.	N/A	Boolean: - true—YES - false—NO(default).	N/A

NAT/ReplyRedirectOnInterfaces

This table contains the interfaces where redirect reply-route is enabled.

XML structure

```
<NAT>
  <ReplyRedirectOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableReplyRedirect></EnableReplyRedirect >
    </Interface>
```

```

    </ReplyRedirectOnInterfaces >
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ReplyRedirectOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
EnableReplyRedirect	Whether enable redirect reply-route on the interface	N/A	Boolean: - true—YES - false—NO(default).	N/A

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NAT

NAT/AddrGroups

This table contains information about NAT address groups.

XML structure

```
<NAT>
  <AddrGroups>
    <AddrGroup>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <ExtendedBlockNumber></ExtendedBlockNumber>
      <StartPort></StartPort>
      <EndPort></EndPort>
    </AddrGroup>
  </AddrGroups>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroups
Table type	Multi-instance table
Row name	AddrGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	To configure dynamic NAT444, you must configure port block for the referenced NAT address group. With dynamic NAT444 configured, when a private IP address initiates a connection to

Column name	Column description	Column type	Data type and restrictions	Remarks
				the public network, the NAT444 gateway assigns it a public IP address and a port block, and creates an entry for the mapping. For subsequent connections from the private IP address, the NAT444 gateway translates the private IP address to the mapped public IP address and the ports to ports in the mapped port block. In a NAT address group, the port block size cannot be larger than the number of ports in the port range. Configure this item before configuring <i>ExtendedBlockNumber</i>, deleting this item also deletes <i>ExtendedBlockNumber</i>.
ExtendedBlockNumber	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	With this parameter specified, when a private IP address accesses the public network, but the ports in the mapped port block are all occupied, the NAT gateway extends port blocks for the private IP address. A user can contain up to <i>ExtendedBlockNumber</i> + 1 port blocks at the same time. If you want to configure this you must first configure the <i>PortBlocksize</i>.
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	Set <i>StartPort</i> and <i>EndPort</i> to their default values to define a default port range. The <i>StartPort</i> cannot be greater than the <i>EndPort</i>. The number of ports in a port range cannot be smaller than the port block size.
EndPort	End port of the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port range.		Value range: 1 to 65535.	

NAT/AddrGroupMembers

This table contains information about the NAT address group members.

XML structure

```

<NAT>
  <AddrGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GroupMember>
  </AddrGroupMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	AddrGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT address group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
StartIpv4Address	Start IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.1. The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i> . If they are the same, the group member has only one IP address. The IP addresses of address members on the device must not

Column name	Column description	Column type	Data type and restrictions	Remarks
				overlap. The source address in a packet destined for an external network is translated into an address in one of group members.
EndIpv4Address	End IPv4 address of the address group member	Index	String, dotted decimal notation.	Example: 1.1.1.6.

NAT/AddrPoolAlloc

This table contains address pool allocation information about the NAT address pool.

XML structure

```

<NAT>
  <AddrPoolAlloc>
    <AddrBlock>
      <AddrPoolName></AddrPoolName>
      <VxLanID></VxLanID>
      <DPAddress></DPAddress>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </AddrBlock>
  </AddrPoolAlloc>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	AddrPoolAlloc
Table type	Multi-instance table
Row name	AddrBlock
Restrictions	None

Columns

	Column description	Column type	Data type and restrictions	Remarks
AddrPoolName	NAT address pool name	Index	String, case-sensitive. Length:1 to31characters.	N/A
VxLanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
DPAddress	DP address	Index	String, dotted decimal notation.	Example: 11.1.1.2.
StartIpv4Address	Start IPv4 address of the dynamic address block	Index	String, dotted decimal notation.	Example: 1.1.1.1. The <i>StartIpv4Address</i> cannot be greater than the <i>EndIpv4Address</i> . If they are same, the block member has only one IP address. The IP addresses of address members on the device must not overlap. The source address in a packet destined for an external network is translated into an address in one of block members.
EndIpv4Address	End IPv4 address of the dynamic address block		String, dotted decimal notation.	Example: 1.1.1.6.

NAT/InboundDynamicRules

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```

<NAT>
  <InboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>

```

```

    <AddrGroupNumber></AddrGroupNumber>
    <VRF></VRF>
    <NoPAT></NoPAT>
    <Reversible></Reversible>
    <AutoAddRoute></AutoAddRoute>
    <RuleName></RuleName>
    <RulePriority></RulePriority>
  </Interface>
</InboundDynamicRules>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	InboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	An ACL can be used by only one inbound dynamic NAT rule on an interface.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configuration. It cannot be used by the NAT inbound configuration in both PAT and NO-PAT modes. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: • true—YES • false—NO.	PAT supports only TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: • true—YES • false—NO.	NAT translates the destination IP address of the packets of a connection originating from an internal host to the NAT address based on the existing NO-PAT entry. This column can only be configured in NO-PAT mode.
AutoAddRoute	Whether adds a route to the NAT address when address translation is performed for a packet.	N/A	Boolean: • true—YES • false—NO.	The output interface is the NAT interface and the next-hop is the source address before translation. If you do not specify this keyword, you must manually add the route. It is recommended that you specify this keyword. This column can only be configured in NO-PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/OutboundDynamicRules

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <OutboundDynamicRules>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <AddrGroupNumber></AddrGroupNumber>
      <VRF></VRF>
      <NoPAT></NoPAT>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </OutboundDynamicRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundDynamicRules
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive.	If you do not specify any ACL, NAT translates all packets, else translates the packets which matches

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 63 characters.	the ACL. Outbound dynamic NAT rules with ACLs configured on an interface takes precedence over those without ACLs. An outbound dynamic NAT rule with a high ACL number takes effect over that with a low ACL number. An ACL can be used by only one outbound dynamic NAT rule on an interface. This column can be null.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	An address group cannot be used by both the NAT inbound and NAT outbound configurations. It cannot be used by the NAT outbound configuration in both PAT and NO-PAT modes. If you do not specify any address group, the IP address of the interface is used as the NAT address. Easy IP is used. This column is affirmatively chosen item.
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify addresses in the public network, do not use this option.
NoPAT	Whether performs only IP address translation.	N/A	Boolean: - true—YES - false—NO.	NO-PAT mode can't be configured without AddrGroupNumber. PAT only supports TCP, UDP, and ICMP query packets. For an ICMP packet, the ICMP ID is used as its source port number.
Reversible	Whether translates the destination address of a packet that originates from external hosts to the internal	N/A	Boolean: - true—YES - false—NO.	This column can only be configured in NO-PAT mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
	host if the packet is permitted by ACL reverse matching in NO-PAT mode.			
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: - true—YES - false—NO.	This column can only be configured in PAT mode.
RuleName	Name of the dynamic mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the dynamic mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/InboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for inbound static NAT.

XML structure

```

<NAT>
  <InboundStaticMappings>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>三
        <EndIpv4Address></EndIpv4Address>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
    </Mapping>
  </InboundStaticMappings>
</NAT>

```

```

    <RuleName></RuleName>
    <RulePriority></RulePriority>
  </Mapping>
</InboundStaticMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	InboundStaticMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalInfo	External network address pool information	Data structure.	Members include: - GlobalVRF. - StartIpv4Address. - EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for inbound static NAT.
GlobalVRF	VRF of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
LocalInfo	Internal network address information	Data structure.	Members include: - GlobalVRF. - Ipv4Address. - Ipv4PrefixLength.	N/A
LocalVRF	VRF of internal address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	An internal network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the internal network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for inbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated. If you specify an ACL and do not specify the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. The destination addresses of packets originating from internal hosts to the external are not translated. If you specify both an ACL and the reversible keyword, the source addresses of incoming packets permitted by the ACL are translated. If packets originating from internal hosts to the external are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO	Support for this keyword depends on the device model. This column can only be configured when <i>ACLNumber</i> is also configured.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk

Column name	Column description	Column type	Data type and restrictions	Remarks
				(*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/OutboundStaticMappings

This table contains information about one-to-one or **net-to-net** mappings for outbound static NAT.

XML structure

```

<NAT>
  <OutboundStaticMappings>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </GlobalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Mapping>
  </OutboundStaticMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	OutboundStaticMappings
Table type	Multi-instance table

Item	Description
Row name	Mapping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalInfo	Internal network address pool information	Data structure.	Members include: - LocalVRF. - StartIpv4Address. - EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
StartIpv4Address	Start IPv4 address of an internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.1. The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the internal address pool has only one address. The internal address pool can contain a maximum of 255 addresses.
EndIpv4Address	End IPv4 address of the internal address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6.
GlobalInfo	External network address information	Data structure.	Members include: - GlobalVRF. - Ipv4Address. - Ipv4PrefixLength.	N/A
GlobalVRF	VRF of external address	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this parameter.
Ipv4Address	An external network address	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	The prefix length of the external network address	Index	Unsigned integer. Value range: 8 to 32.	Value 32 indicates one-to-one mapping for outbound static NAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you do not specify an ACL, the source addresses of all outgoing packets and the destination addresses of all incoming packets are translated. If you specify an ACL

Column name	Column description	Column type	Data type and restrictions	Remarks
				and do not specify the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. The destination addresses of packets originating from external hosts to the internal are not translated. If you specify both an ACL and the reversible keyword, the source addresses of outgoing packets permitted by the ACL are translated. If packets originating from external hosts to the internal are permitted by ACL reverse matching, the destination address is translated.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by ACL reverse matching.	N/A	Boolean: • true—YES • false—NO	Support for this keyword depends on the device model. This column can only be configured when <i>ACLNumber</i> is also configured.
RuleName	Name of the static mapping	N/A	String, case sensitive. Length: 1 to 63 characters.	The name is optional. Make sure the rule name is unique. The name cannot contain a forward slash (/), backslash (\), vertical bar (), quotation mark ("), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).
RulePriority	Priority of the static mapping	N/A	Unsigned integer. Value range: 0 to 2147483647.	The smaller the value, the higher the mapping priority. If you do not assign a value, the priority is lowest.

NAT/StaticOnInterfaces

This table contains the interfaces where static NAT is enabled.

XML structure

```
<NAT>
  <StaticOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableStatic></EnableStatic>
    </Interface>
  </StaticOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	StaticOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableStatic	Whether enable static NAT on the interface	N/A	Boolean: - true—YES - false—NO	N/A

NAT/ServerGroups

This table contains the information of NAT internal server groups.

XML structure

```
<NAT>
  <ServerGroups>
    <ServerGroup>
      <GroupName></GroupName>
    </ServerGroup>
  </ServerGroups>
</NAT>
```



```

    </ServerGroup>
  </ServerGroups>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ServerGroups
Table type	Multi-instance table
Row name	ServerGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	The internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A

NAT/ServerGroupMembers

This table contains the information of members in the NAT internal server groups.

XML structure

```

<NAT>
  <ServerGroupMembers>
    <GroupMember>
      <GroupNumber></GroupNumber>
      <Ipv4Address></Ipv4Address>
      <PortNumber></PortNumber>
      <Weight></Weight>
      <Sessions></Sessions>
    </GroupMember>
  </ServerGroupMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT

Item	Description
Table name	ServerGroupMembers
Table type	Multi-instance table
Row name	GroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT internal server group number	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Ipv4Address	IP address of an internal server.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
PortNumber	Port number of an internal server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Weight	Weight of the internal server	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
Sessions	Connections to the members in the server group	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

NAT/ServerOnInterfaces

This table contains information about mappings between the IP address and port of internal servers to NAT address and port for the internal servers.

XML structure

```

<NAT>
  <ServerOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>

```

```

    <LocalStartIpv4Address></LocalStartIpv4Address>
    <LocalEndIpv4Address></LocalEndIpv4Address>
    <LocalStartPortNumber></LocalStartPortNumber>
    <LocalEndPortNumber></LocalEndPortNumber>
    <LocalSrvGroupNumber></LocalSrvGroupNumber>
  </LocalInfo>
  <ACLNumber></ACLNumber>
  <Reversible></Reversible>
</Interface>
</ServerOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ServerOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
ProtocolType	Protocol type	Index	Unsigned integer. Value range: 1 to 255.	If the protocol is not TCP or UDP, NAT Server is configured without port information.
GlobalInfo	External network information	Data structure.	Members include: - GlobalVRF. - GlobalStartIpv4Address. - GlobalEndIpv4Address. - GlobalStartPortNumber. - GlobalEndPortNumber. - GlobalIfIndex.	The mapping between the protocol type, external address, and external port number must be unique for an internal server on an interface.
GlobalVRF	VRF of external network	Index	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
GlobalStartIp	Start IPv4	Index	String, dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
v4Address	address of an external address pool		notation.	The <i>GlobalStartIpv4Address</i>s cannot be greater than the <i>GlobalEndIpv4Address</i>. If they are the same, the external address pool has only one address. The external address pool can contain a maximum of 255 addresses. This index can be null.
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	Example: 1.1.1.6. This index can be null.
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	The <i>GlobalStartPortNumber</i> cannot be greater than the <i>GlobalEndPortNumber</i>. If they are the same, the external port number range has only one port. The external port number range can include a maximum of 255 ports. This index can be null.
GlobalEndPortNumber	End port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	This index can be null.
GlobalIfIndex	External interface index, The IP address of the interface is used as the NAT address for the internal server.	Index	Unsigned integer.	Only loopback interfaces and " IfIndex " are supported. The IP address of the interface is used as the NAT address. Easy IP is used. If the IP address of an interface used by Easy IP changes and conflicts with the IP address of an internal server not using Easy IP, the Easy IP configuration becomes invalid. If the conflicted address is modified to an unconflicted address or the internal server configuration without Easy IP is removed, the Easy IP configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
				takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: - LocalVRF. - LocalStartIpv4Address. - LocalEndIpv4Address. - LocalStartPortNumber. - LocalEndPortNumber. - LocalSrvGroupNumber.	The number of addresses in the range must match that of the external port number range.
LocalVRF	VRF of internal address	N/A	String, case-sensitive. Length: 1 to 31 characters.	To specify a public IP address, do not use this option.
LocalStartIpv4Address	Start IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalEndIpv4Address	End IPv4 address of the internal address pool	N/A	String, dotted decimal notation.	Example: 1.1.1.6.
LocalStartPortNumber	Start port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	The <i>LocalStartPortNumber</i> cannot be greater than the <i>LocalEndPortNumber</i> . If they are the same, the internal port number range has only one port. The internal port number range can include a maximum of 255 ports.
LocalEndPortNumber	End port of an internal port number range	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
LocalSrvGroupNumber	The internal server group to which the internal server belongs.	N/A	Unsigned integer. Value range: 0 to 65535.	With this parameter, the load sharing NAT Server feature is configured. Support for the value range depends on the device model.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If you specify an ACL, only packets permitted by the ACL can be translated by using the mapping. Support for this parameter depends on the device model.
Reversible	Whether reverse address	N/A	Boolean: true—YES.	Reverse address translation applies to

Column name	Column description	Column type	Data type and restrictions	Remarks
	translation is supported.		false—NO.	connections actively initiated by internal hosts to the external host. It uses existing mappings to translate the destination address for packets of these connections if the packets are permitted by ACL reverse matching.

The following table describes the address-port mappings between an external network and an internal network for NAT Server. The mappings which is not listed is not supported and will be treated as configuration conflict.

Noun explanation:

Consecutive external addresses: *GlobalEndIpv4Address* is greater than *GlobalStartIpv4Address*.

Single external address: *GlobalEndIpv4Address* is equal to *GlobalStartIpv4Address*, or *GlobalEndIpv4Address* is null.

Consecutive external ports: *GlobalEndPortNumber* is greater than *GlobalStartPortNumber*.

Single external port: *GlobalEndPortNumber* is equal to *GlobalStartPortNumber*, or *GlobalEndPortNumber* is null.

Consecutive internal addresses: *LocalEndIpv4Address* is greater than *LocalStartIpv4Address*.

Single internal address: *LocalEndIpv4Address* is equal to *LocalStartIpv4Address*, or *LocalEndIpv4Address* is null.

Consecutive internal ports: *LocalEndPortNumber* is greater than *LocalStartPortNumber*.

Single internal port: *LocalEndPortNumber* is equal to *LocalStartPortNumber*, or *LocalEndPortNumber* is null.

External network	Internal network
An external address	An internal address.
An external address and an external port number	An internal address and an internal port number.
An external address and <i>N</i> consecutive external port numbers	An internal address and an internal port number.
	<i>N</i> consecutive internal addresses and an internal port number.
	An internal address and <i>N</i> consecutive internal port numbers.
<i>N</i> consecutive external addresses	An internal address.
	<i>N</i> consecutive internal addresses.
<i>N</i> consecutive external addresses and an external port number	An internal address and an internal port number.
	<i>N</i> consecutive external addresses and an internal port number.
	An internal address and <i>N</i> consecutive internal port numbers.

External network	Internal network
An external address and an external port number	
An external address and <i>N</i> consecutive external port numbers	An internal server group.
<i>N</i> consecutive external addresses and an external port number	

NAT/PortBlockGroups

This table contains the information about NAT port block groups.

XML structure

```

<NAT>
  <PortBlockGroups>
    <Group>
      <GroupNumber></GroupNumber>
      <PortBlockSize></PortBlockSize>
      <GlobalStartPort></GlobalStartPort>
      <GlobalEndPort></GlobalEndPort>
    </Group>
  </PortBlockGroups>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
PortBlockSize	The number of ports included in a port block.	N/A	Unsigned integer. Value range: 1 to 65535.	When you set a port block size, give consideration to the

				number of private IP addresses, the number of public IP addresses, and the port range. The port block size cannot be larger than the number of ports in the port range.
GlobalStartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	Set <i>GlobalStartPort</i> and <i>GlobalEndPort</i> to their default values to define a default port range. The <i>GlobalStartPort</i> cannot be greater than the <i>GlobalEndPort</i>. The port range must include all ports that the public IP addresses use for address translation. The number of ports in a port range cannot be smaller than the port block size.
GlobalEndPort	End port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

NAT/PortBlockGroupLocalMembers

This table contains the information of private IP address members in NAT port block groups.

XML structure

```

<NAT>
  <PortBlockGroupLocalMembers>
    <LocalMember>
      <GroupNumber></GroupNumber>
      <VRF></VRF>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </LocalMember>
  </PortBlockGroupLocalMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupLocalMembers

Item	Description
Table type	Multi-instance table
Row name	LocalMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple private IP address members in a port block group, but they cannot overlap. Private IP address members in different port block groups can overlap. For static NAT444, in a port block group, the number of private IP addresses cannot be larger than the number of assignable port blocks. Otherwise, some private IP addresses cannot obtain port blocks.
VRF	VRF to which the private IP address member belong.	Index	String, case-sensitive. Length: 1 to 31 characters.	Do not specify this parameter if the private IP address member does not belong to any VPN.
StartIpv4Address	Start IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
EndIpv4Address	End IPv4 address of the private IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specifies only one private IP address.

NAT/PortBlockGroupGlobalMembers

This table contains the informations of public IP address members in NAT port block groups.

XML structure

```
<NAT>
  <PortBlockGroupGlobalMembers>
    <GlobalMember>
      <GroupNumber></GroupNumber>
      <StartIpv4Address></StartIpv4Address>
      <EndIpv4Address></EndIpv4Address>
    </GlobalMember>
  </PortBlockGroupGlobalMembers>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PortBlockGroupGlobalMembers
Table type	Multi-instance table
Row name	GlobalMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	NAT port block group number.	Index	Unsigned integer. Value range: 0 to 65535.	You can specify multiple public IP address members in a port block group, but they cannot overlap. Public IP address members in different port block groups can overlap. But the port ranges for overlapped members in different port block groups cannot overlap. The number of port blocks that a public IP address can assign is determined by dividing the number of ports in its port range by the port block size.
StartIpv4Address	Start IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.1.

EndIpv4Address	End IPv4 address of the public IP address member.	Index	String, dotted decimal notation.	Example: 1.1.1.6. The end IP address cannot be smaller than the start IP address. If the start and end IP addresses are the same, you specify only one public IP address.
----------------	---	-------	----------------------------------	--

NAT/OutboundPortBlockOnInterfaces

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```

<NAT>
  <OutboundPortBlockOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <GroupName></GroupName>
    </Interface>
  </OutboundPortBlockOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	OutboundPortBlockOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
GroupName	NAT port block group number.	Index	Unsigned integer.	You can apply multiple port block groups to

			Value range: 0 to 65535.	one interface. After you apply a port block group to an interface, the system automatically computes the IP-to-port block mappings and creates entries for them. When a private IP address accesses the public network, the private IP address is translated to the mapped public IP address and the ports are translated to ports in the mapped port block.
--	--	--	--------------------------	---

NAT/DNSMappings

This table contains the mappings about the domain name of an internal server to the public IP address, public port number, and protocol type of the server.

XML structure

```
<NAT>
  <DNSMappings>
    <MapInfo>
      <Domain></Domain>
      <Protocol></Protocol>
      <Ipv4Address></Ipv4Address>
      <IfIndex></IfIndex>
      <PortNumber></PortNumber>
    </MapInfo>
  </DNSMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DNSMappings
Table type	Multi-instance table
Row name	MapInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The domain name of an internal server.	Index	String, case-sensitive. Length: 1 to 253 characters.	A domain name is a dot-separated that can include letters, digits, hyphens (-), underscores (_), and dots (.) (for example, aabbcc.com). The domain name suffix can contain at most 253 characters, and each separated string contains no more than 63 characters.
Protocol	The type of the protocol used by the internal server.	N/A	Enumeration: • 6—TCP. 17—UDP.	This column is affirmatively chosen item.
Ipv4Address	The public IP address used by the internal server to provide services to the external network.	N/A	String, dotted decimal notation.	Example: 1.1.1.6. The Ipv4Address and IfIndex are two configuration modes, only one mode must be configured.
IfIndex	Interface index	N/A	Unsigned integer.	Enables Easy IP to use the IP address of the interface specified by its index as the public address of the internal server. Only loopback interfaces are supported.
PortNumber	The public port number used by the internal server to provide services to the external network.	N/A	Unsigned integer. Value range: 1 to 65535.	This column is affirmatively chosen item.

NAT/ALG

This table contains the protocols for which NAT with ALG is enabled.

XML structure

```

<NAT>
  <ALG>
    <ALGInfo>
      <AppID></AppID>
    
```

```

    <AppName></AppName>
    <EnableALG></EnableALG>
  </ALGInfo>
</ALG>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ALG
Table type	Multi-instance table
Row name	ALGInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Protocol ID for which NAT with ALG is enabled.	Index	Unsigned integer. Value range: 0 to 14. 0—DNS 1—FTP. 2—ICMP-ERROR 3—H.323 4—SIP 5—TFTP 6—RTSP 7—SQLNET 8—XDMCP 9—ILS 10—MGCP 11—NBT 12—PPTP 13—RSH 14—SCCP	Use ALG with NAT to translate the payload information to ensure the establishment of data connections. NAT translates IP address and port information in packet headers, and ALG processes the fields in application layer payloads. The packet payloads of some protocols might contain IP address or port information for connection establishment. If this information is not translated, problems might occur. For example, an FTP application involves both data connection and control connection. The data connection establishment dynamically depends on the payload information for the control connection.
AppName	Protocol name for which NAT with ALG is enabled.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

EnableALG	Whether enable NAT with ALG.	N/A	Boolean: - true—YES - false—NO	N/A
-----------	------------------------------	-----	---	-----

NAT/EIM

This table is about the mapping behavior mode for PAT.

XML structure

```

<NAT>
  <EIM>
    <EnableEIM></EnableEIM>
    <ACLNumber></ACLNumber>
  </EIM>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	EIM
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableEIM	Whether enable Endpoint-Independent Mapping (EIM).	N/A	Boolean: - true—YES - false—NO	Endpoint-Independent Mapping—EIM uses the same IP and port mapping for packets from the same source and port to any destination IP and port. An EIM entry is generated to record the IP and port mapping. This behavior allows packets from any external host to access the internal user by using the NAT address and port. This behavior facilitates communication among

				hosts that connect to different NAT gateways. •Address and Port-Dependent Mapping—Uses different IP and port mappings for packets with the same source IP and port to different destination IP addresses and ports. This behavior does not allow packets from an external host to be sent to any NAT address and port unless the internal host has previously sent a packet of the same protocol to that external host. This behavior is secure but inconvenient for communication among hosts connecting to different NAT gateways. This configuration takes effect only on outbound PAT. Address and Port-Dependent Mapping always applies to inbound PAT.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	Applies the NAT mapping behavior to packets that are permitted by the ACL. If no ACL is specified, the Endpoint-Independent Mapping applies to all packets. This field is available only when <i>EnableEIM</i> is set to true.

NAT/HairpinOnInterfaces

This table contains the interfaces where hairpin is enabled.

XML structure

```

<NAT>
  <HairpinOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableHairpin></EnableHairpin>
    </Interface>
  </HairpinOnInterfaces>
</NAT>

```



```

    </Interface>
  </HairpinOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	HairpinOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
EnableHairpin	Whether enable hairpin on the interface	N/A	Boolean: - true—YES - false—NO	NAT hairpin allows internal hosts behind the same NAT device to access each other only after they use the NAT addresses. NAT hairpin functions on the interface that connects the internal network and translates the source and destination IP addresses of a packet on the interface. NAT hairpin typically operates with NAT Server, outbound dynamic NAT, or outbound static NAT.

NAT/LogRule

This table contains NAT log configurations.

XML structure

```
<NAT>
```

```

<LogRule>
  <GlobalLog>
    <EnableGlobalLog></EnableGlobalLog>
    <ACLNumber></ACLNumber>
  </GlobalLog>
  <EnableFlowBeginLog></EnableFlowBeginLog>
  <EnableFlowEndLog></EnableFlowEndLog>
  <ActiveFlowLog>
    <EnableActiveFlowLog></EnableActiveFlowLog>
    <Interval></Interval>
  </ActiveFlowLog>
  <EnablePortBlockAssignLog></EnablePortBlockAssignLog>
  <EnablePortBlockWithDrawLog></EnablePortBlockWithDrawLog>
  <EnableAlarmLog></EnableAlarmLog>
</LogRule>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	LogRule
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLog	Global log configuration.	Data structure.	Members include: - EnableGlobalLog. - ACLNumber.	N/A
EnableGlobalLog	Whether enable the NAT logging function.	N/A	Boolean: - true—YES - false—NO	Other column takes effect only after you enable NAT logging.
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	If an ACL is specified, this command logs NAT flows that match the permit statements in the ACL. If no ACL is specified, this configuration logs all NATed data flows. This field is available only when

				<i>EnableGlobalLog</i> is set to true.
EnableFlowBeginLog	Whether enable logging for NAT session establishment events.	N/A	Boolean: - true—YES - false—NO	When a NAT session is established, this function outputs a NAT log.
EnableFlowEndLog	Whether enable logging for NAT session removal events.	N/A	Boolean: - true—YES - false—NO.	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: - EnableActiveFlowLog. - Interval.	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: - true—YES - false—NO	Configure this column must also configure the <i>Interval</i> .
Interval	The interval for logging active NAT flows (minutes).	N/A	Unsigned integer. Value range: 10 to 20.	Configure <i>EnableActiveFlowLog</i> to true to configure this item.
EnablePortBlockAssignLog	Whether enable logging for port block assigning.	N/A	Boolean: - true—YES - false—NO	N/A
EnablePortBlockWithdrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: - true—YES - false—NO	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: - true—YES - false—NO	N/A

NAT/HotBackup

This table contains NAT hot backuping configurations.

XML structure

```

<NAT>
  <HotBackup>
    <EnablePortBlock></EnablePortBlock>
  </HotBackup>
</NAT>

```

Table description

Item	Description
Feature name	NAT

Item	Description
Table name	HotBackup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnablePortBlock	Whether enable hot backuping for port block.	N/A	Boolean: - true - false	N/A

NAT/Statistics

This table contains NAT statistics.

XML structure

```

<NAT>
  <Statistics>
    <StatisticInfo>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SessionCount></SessionCount>
      <NatSessionRate></NatSessionRate>
      <EIMCount></EIMCount>
      <InboundNoPATCount></InboundNoPATCount>
      <OutboundNoPATCount></OutboundNoPATCount>
      <PortBlock>
        <StaticCount></StaticCount>
        <ActiveStaticCount></ActiveStaticCount>
        <DynamicCount></DynamicCount>
        <ActiveDynamicCount></ActiveDynamicCount>
      </PortBlock>
    </StatisticInfo>
  </Statistics>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	Statistics
Table type	Multi-instance table
Row name	StatisticInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
SessionCount	Number of NAT session entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
NatSessionRate	Establishment rate of NAT sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
EIMCount	Number of EIM entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
InboundNoPATCount	Number of inbound NO-PAT entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
OutboundNoPATCount	Number of outbound NO-PAT entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
PortBlock	Statistics about port block.	Data structure.	Members include: - StaticCount. - ActiveStaticCount. - DynamicCount. - ActiveDynamicCount	N/A
StaticCount	Number of static IP-to-port block mapping entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ActiveStaticCount	Number of dynamic IP-to-port block mapping entries that can be	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	It equals the number of port blocks for dynamic assignment, including those have been assigned and those not

Column name	Column description	Column type	Data type and restrictions	Remarks
	created.			assigned yet.
DynamicCount	Number of static IP-to-port block mapping entries that are in current use.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ActiveDynamicCount	Number of dynamic IP-to-port block mapping entries that have been created.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	It equals the number of assigned port blocks.

NAT/StaticLoadBalance

This table contains NAT static load balance configurations.

XML structure

```

<NAT>
  <StaticLoadBalance>
    <EnableStaticLoadBalance></EnableStaticLoadBalance>
  </StaticLoadBalance>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	StaticLoadBalance
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaticLoadBalance	Whether enable load balance function for NAT static configure.	N/A	Boolean: - true—YES - false—NO	N/A

NAT/Capabilities

This table contains NAT support special capabilities.

XML structure

```
<NAT>
  <Capabilities>
    <OutboundEasyIP></OutboundEasyIP>
  </Capabilities>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutboundEasyIP	Whether support EasyIP for NAT dynamic outbound configure.	N/A	Boolean: - true—YES - false—NO.	N/A

NAT/ReplyRedirectOnInterfaces

This table contains the interfaces where redirect reply-route is enabled.

XML structure

```
<NAT>
  <ReplyRedirectOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableReplyRedirect></EnableReplyRedirect>
    </Interface>
  </ReplyRedirectOnInterfaces>
```

</NAT>

Table description

Item	Description
Feature name	NAT
Table name	ReplyRedirectOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
EnableReplyRedirect	Whether enable redirect reply-route on the interface	N/A	Boolean: - true—YES. - false—NO.	N/A

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XML structure	2
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ND

ND/NDClearByType

This table is used to clear ND entries according to ND entry type.

XML structure

```
<ND>
  <NDClearByType>
    <Type></Type>
  </NDClearByType >
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDClearByType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	ND entry type	N/A	Enumeration: • 0—Static. • 1—Dynamic. • 2—All.

ND/NDClearByIfIndex

This table is used to clear dynamic ND entries according to interface index.

XML structure

```
<ND>
  <NDClearByIfIndex>
    <ClearByIfIndex>
      <IfIndex></IfIndex>
    </ClearByIfIndex>
  </NDClearByIfIndex>
</ND>
```

```

        </ClearByIfIndex>
    </NDClearByIfIndex>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDClearByIfIndex
Table type	Multi-instance table
Row name	ClearByIfIndex
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.

ND/NDClearTable

This table is used to clear dynamic ND entries.

XML structure

```

<ND>
  <NDClearTable>
    <ClearEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
    </ClearEntry>
  </NDClearTable>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDClearTable
Table type	Multi-instance table
Row name	ClearEntry
Restrictions	Only Layer 3 interface is supported.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface Index	Index	Unsigned integer.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.

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ND

ND/NDTable

This table contains information about neighbor entries.

XML structure

```
<ND>
  <NDTable>
    <NDEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
    </NDEntry>
  </NDTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDTable
Table type	Multi-instance table
Row name	NDEntry
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. If the specified interface is a VLAN interface, the VLAN ID corresponding to the interface must be consistent with the value of the VLANID column. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Required.
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	It must be configured together with the PortIndex column.
PortIndex	Port index	N/A	Unsigned integer.	It must be configured together with the VLANID column. The port specified by PortIndex must belong to the VLAN specified by VLANID.
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Required. 0 means public network.

ND/NDLearnLimit

This table contains the information of maximum number of dynamic neighbor entries that an interface can learn.

XML structure

```

<ND>
  <NDLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
    </LearnLimit>
  </NDLearnLimit>
</ND>

```

```

    </LearnLimit>
  </NDLearnLimit>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2/Layer 3 interface Layer 2/Layer 3 aggregate interface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
LearnMaxNum	The maximum number of dynamic neighbor entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model. The default setting varies with device models.

ND/NDInterface

This table contains neighbor interface information.

XML structure

```

<ND>
  <NDInterface>
    <Interface>
      <IfIndex></IfIndex>

```



```

    <DADAttempts></DADAttempts>
    <ModeUNI></ModeUNI>
  </Interface>
</NDInterface>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
DADAttempts	The number of attempts to send an NS message for DAD	N/A	Unsigned integer. Value range: 0 to 600. Default: 1.	0 means DAD is disabled. Only Layer 3 interfaces are supported.
ModeUNI	Configure a port as a customer-side port true: Customer-side port false: Network-side port	N/A	Boolean: true false (default)	Whether the ModeUNI is supported depends on the device model. Only VLAN interfaces are supported.

ND/NDConfig

This table contains neighbor configuration information.

XML structure

```
<ND>
  <NDConfig>
    <StaleAging></StaleAging>
    <LinkLocalMinimize></LinkLocalMinimize>
    <HopLimit></HopLimit>
  </NDConfig>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaleAging	The aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 1 to 1440 minutes. Default: 240 minutes.	N/A
LinkLocalMinimize	Whether minimize link-local ND entries or not	N/A	Boolean: true false (default)	N/A
HopLimit	The Hop Limit field in the IPv6 header	N/A	Unsigned integer. Value range: 1 to 255. Default: 64.	If the device advertises the hop limit in RA messages, all RA message receivers receiving the RA message fill the value into the Hop Limit field of IPv6 packets to be sent.

ND/NDRA

This table contains information about neighbor RA.

XML structure

```
<ND>
  <NDRA>
    <RA>
      <IfIndex></IfIndex>
      <RAHalt></RAHalt>
      <MaxInterval></MaxInterval>
      <MinInterval></MinInterval>
      <NoAdvLinkMTU></NoAdvLinkMTU>
      <HopLimitUnspecified></HopLimitUnspecified>
      <ManagedAddressFlag></ManagedAddressFlag>
      <OtherFlag></OtherFlag>
      <RouterLifetime></RouterLifetime>
      <NSRetransTimer></NSRetransTimer>
      <RouterPreference></RouterPreference>
      <NudReachableTime></NudReachableTime>
    </RA>
  </NDRA>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRA
Table type	Multi-instance table
Row name	RA
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
RAHalt	Whether suppress an interface from advertising RA message or not	N/A	Boolean: • true (default) • false—Disabled.	N/A
MaxInterval	The maximum interval for advertising RA messages	N/A	Unsigned integer. Value range: 4 to 1800 seconds. Default: 600 seconds.	It must be configured together with the MinInterval column.
MinInterval	The minimum interval for advertising RA messages	N/A	Unsigned integer. Value range: 3 to three-fourths of the MaxInterval. Default: 200 seconds.	It must be configured together with the MaxInterval column.
NoAdvLinkMTU	Whether turn off the MTU option in RA messages or not	N/A	Boolean: • true • false (default)	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: • true • false (default)	N/A
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: • true • false (default)	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: • true • false (default)	N/A
RouterLifetime	The router lifetime in RA messages	N/A	Unsigned integer. Value range: 0 to 9000 seconds. Default: 1800 seconds.	0 means the router does not serve as the default router
NSRetransTimer	The interval for retransmitting an NS message	N/A	Unsigned integer. Value range: 1000 to 4294967295 milliseconds. Default: 1000 milliseconds.	N/A
RouterPreference	The router preference in RA messages	N/A	Enumeration: • 1—High. • 2—Low. • 3—Medium (default).	N/A
NudReachableTime	The neighbor reachable time on an interface	N/A	Unsigned integer. Value range: 1 to 3600000 milliseconds. Default: 30000 milliseconds.	N/A

ND/NDRAPrefix

This table contains information about neighbor RA prefix.

XML structure

```
<ND>
  <NDRAPrefix>
    <RAPrefix>
      <IfIndex></IfIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ValidLifetime></ValidLifetime>
      <PreferredLifetime></PreferredLifetime>
      <NoAutoConfig></NoAutoConfig>
      <OffLink></OffLink>
    </RAPrefix>
  </NDRAPrefix>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefix
Table type	Multi-instance table
Row name	RAPrefix
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	It must be configured as valid IPv6 prefix.
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
ValidLifetime	The valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	Required.
PreferredLifetime	The preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	Required.
NoAutoConfig	Whether the function of not to be used for stateless autoconfiguration is enabled	N/A	Boolean: true false (default)	N/A
OffLink	Whether the function of the address with the prefix is not directly reachable on the link is enabled	N/A	Boolean: true false (default)	N/A

ND/NDProxy

This table contains information about neighbor proxy.

XML structure

```
<ND>
  <NDProxy>
```

```

<Proxy>
  <IfIndex></IfIndex>
  <ProxyEnable></ProxyEnable>
  <LocalProxyEnable></LocalProxyEnable>
</Proxy>
</NDProxy>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDProxy
Table type	Multi-instance table
Row name	Proxy
Restrictions	This table supports interface types: VLAN interface Layer 3 Ethernet interface/ Layer 3 Ethernet subinterface
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
ProxyEnable	Whether the function of common ND proxy is enabled	N/A	Boolean: - true - false (default)	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: - true - false (default)	N/A

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ND

ND/NDTable

This table contains information about neighbor entries.

XML structure

```
<ND>
  <NDTable>
    <NDEntry>
      <IfIndex></IfIndex>
      <Ipv6Address></Ipv6Address>
      <MacAddress></MacAddress>
      <VLANID></VLANID>
      <PortIndex></PortIndex>
      <VrfIndex></VrfIndex>
      <Type></Type>
      <State></State>
      <AgeTime></AgeTime>
    </NDEntry>
  </NDTable>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDTable
Table type	Multi-instance table
Row name	NDEntry
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
MacAddress	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
PortIndex	Port index	N/A	Unsigned integer.	N/A
VrfIndex	Index of the VRF	N/A	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 0 means public network
Type	Neighbor information type	N/A	Enumeration: 1—Invalid static. 2—Static. 3—Dynamic. 4—OpenFlow. 5—Rule.	N/A
State	State of a neighbor	N/A	Enumeration: 1—INCOMP. 2—REACH. 3—STALE. 4—DELAY. 5—PROBE.	N/A
AgeTime	The elapsed time	N/A	Unsigned integer.	N/A

ND/NDLearnLimit

This table contains the information of maximum number of dynamic neighbor entries that an interface can learn.

XML structure

```

<ND>
  <NDLearnLimit>
    <LearnLimit>
      <IfIndex></IfIndex>
      <LearnMaxNum></LearnMaxNum>
    </LearnLimit>
  </NDLearnLimit>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDLearnLimit
Table type	Multi-instance table
Row name	LearnLimit
Restrictions	This table supports interface types: Layer 2/Layer 3 interface Layer 2/Layer 3 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface Index	Index	Unsigned integer.	N/A
LearnMaxNum	The maximum number of dynamic neighbor entries that an interface can learn	N/A	Unsigned integer. Value range: 1 to LearnMaxNumLimit.	The value of LearnMaxNumLimit depends on the device model.

ND/NDInterface

This table contains neighbor interface information.

XML structure

```
<ND>
  <NDInterface>
    <Interface>
      <IfIndex></IfIndex>
      <DADAttempts></DADAttempts>
      <ModeUNI></ModeUNI>
    </Interface>
  </NDInterface>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDInterface

Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
DADAttempts	The number of attempts to send an NS message for DAD	N/A	Unsigned integer. Value range: 0 to 600.	0 means DAD is disabled. Only Layer 3 interfaces are supported.
ModeUNI	Configure a port as a customer-side port true: Customer-side port false: Network-side port	N/A	Boolean: true false	Only VLAN interfaces are supported

ND/NDConfig

This table contains neighbor configuration information.

XML structure

```

<ND>
  <NDConfig>
    <StaleAging></StaleAging>
    <LinkLocalMinimize></LinkLocalMinimize>
    <HopLimit></HopLimit>
  </NDConfig>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StaleAging	The aging time for ND entries in stale state	N/A	Unsigned integer. Value range: 1 to 1440 minutes.	N/A
LinkLocalMinimize	Whether minimize link-local ND entries or not	N/A	Boolean: true false	N/A
HopLimit	The Hop Limit field in the IPv6 header	N/A	Unsigned integer. Value range: 1 to 255.	If the device advertises the hop limit in RA messages, all RA message receivers receiving the RA message fill the value into the Hop Limit field of IPv6 packets to be sent.

ND/NDRA

This table contains information about neighbor RA.

XML structure

```

<ND>
  <NDRA>
    <RA>
      <IfIndex></IfIndex>
      <RAHalt></RAHalt>
      <MaxInterval></MaxInterval>
      <MinInterval></MinInterval>
      <NoAdvLinkMTU></NoAdvLinkMTU>
      <HopLimitUnspecified></HopLimitUnspecified>
      <ManagedAddressFlag></ManagedAddressFlag>
      <OtherFlag></OtherFlag>
      <RouterLifetime></RouterLifetime>
      <NSRetransTimer></NSRetransTimer>
      <RouterPreference></RouterPreference>
      <NudReachableTime></NudReachableTime>
    </RA>
  </NDRA>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDRA
Table type	Multi-instance table
Row name	RA
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
RAHalt	Whether suppress an interface from advertising RA message or not	N/A	Boolean: • true • false	N/A
MaxInterval	The maximum interval for advertising RA messages	N/A	Unsigned integer. Value range: 4 to 1800 seconds.	N/A
MinInterval	The minimum interval for advertising RA messages	N/A	Unsigned integer. Value range: 3 to three-fourths of the MaxInterval.	N/A
NoAdvLinkMTU	Whether turn off the MTU option in RA messages or not	N/A	Boolean: • true • false	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: • true • false	N/A
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: • true. • False	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: • true • false (default).	N/A
RouterLifetime	The router lifetime in RA messages	N/A	Unsigned integer. Value range: 0 to 9000 seconds.	0 means the router does not serve as the default router
NSRetransTimer	The interval for retransmitting an NS message	N/A	Unsigned integer. Value range: 1000 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			milliseconds.	
RouterPreference	The router preference in RA messages	N/A	Enumeration: • 1—High. • 2—Low. • 3—Medium.	N/A
NudReachableTime	The neighbor reachable time on an interface	N/A	Unsigned integer. Value range: 1 to 3600000 milliseconds.	N/A

ND/NDRAPrefix

This table contains information about neighbor RA prefix.

XML structure

```

<ND>
  <NDRAPrefix>
    <RAPrefix>
      <IfIndex></IfIndex>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ValidLifetime></ValidLifetime>
      <PreferredLifetime></PreferredLifetime>
      <NoAutoConfig></NoAutoConfig>
      <OffLink></OffLink>
    </RAPrefix>
  </NDRAPrefix>
</ND>

```

Table description

Item	Description
Feature name	ND
Table name	NDRAPrefix
Table type	Multi-instance table
Row name	RAPrefix
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 interfaces are supported.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address	Index	Hexadecimal string, colon-separated.	N/A
Ipv6PrefixLength	Length of the IPv6 prefix	Index	Unsigned integer. Value range: 1 to 128.	N/A
ValidLifetime	The valid lifetime of a prefix	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	N/A
PreferredLifetime	The preferred lifetime of a prefix used for stateless autoconfiguration	N/A	Unsigned integer. Value range: 0 to 4294967295 seconds.	N/A
NoAutoConfig	Whether the function of not to be used for stateless autoconfiguration is enabled	N/A	Boolean: true false	N/A
OffLink	Whether the function of the address with the prefix is not directly reachable on the link is enabled	N/A	Boolean: true false	N/A

ND/NDProxy

This table contains information about neighbor proxy.

XML structure

```

<ND>
  <NDProxy>
    <Proxy>
      <IfIndex></IfIndex>
      <ProxyEnable></ProxyEnable>
      <LocalProxyEnable></LocalProxyEnable>
    </Proxy>
  </NDProxy>
</ND>

```


Table description

Item	Description
Feature name	ND
Table name	NDProxy
Table type	Multi-instance table
Row name	Proxy
Restrictions	This table supports interface types: VLAN interface Layer 3 Ethernet interface/ Layer 3 Ethernet subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
ProxyEnable	Whether the function of common ND proxy is enabled	N/A	Boolean: - true - false	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: - true - false.	N/A

ND/NDSpecification

This table contains ND specification information.

XML structure

```
<ND>
  <NDSpecification>
    <LearnMaxNumLimit></LearnMaxNumLimit>
    <SupportModeUNI></SupportModeUNI>
  </NDSpecification>
</ND>
```

Table description

Item	Description
Feature name	ND
Table name	NDSpecification
Table type	Single-instance table

Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LearnMaxNumLimit	Set the maximum number of dynamic neighbor entries that the interface can learn	N/A	Unsigned integer.
SupportMode UNI	Whether support for configuring a port as a customer-side port or not	N/A	Boolean: - true - false

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- NETSHARE1
 - NETSHARE/FreezeIP1
 - XML structure1
 - Table description1
 - Columns1
 - NETSHARE/UnfreezeIP2
 - XML structure2
 - Table description2
 - Columns3

NETSHARE

NETSHARE/FreezeIP

This table is used to freeze IP addresses.

XML structure

```
<NETSHARE>
  <FreezeIP>
    <IPAddress></IPAddress>
    <VrfName></VrfName>
    <Freezetime></Freezetime>
  </FreezeIP>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	FreezeIP
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A
Freezetime	Freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 5 to 720.	N/A

NETSHARE/UnfreezeIP

This table is used to unfreeze IP addresses.

XML structure

```

<NETSHARE>
  <UnfreezeIP>
    <IPAddress></IPAddress>
    <VrfName></VrfName>
  </UnfreezeIP>
</NETSHARE>

```

Table description

Item	Description
Feature name	NETSHARE
Table name	UnfreezeIP
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A

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NETSHARE/PolicyJsonOptions	2
XML structure	3
Table description	3
Columns	3

NETSHARE

NETSHARE/Policies

This table contains netshare control policy information.

XML structure

```
<NETSHARE>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <Enable></Enable>
      <IPIDtrailsw></IPIDtrailsw>
      <IPtmmaxnum></IPtmmaxnum>
      <Action></Action>
      <Freezetime></Freezetime>
      <Logging></Logging>
    </Policy>
  </Policies>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the netshare control policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PolicyDescription	Description of the policy	N/A	String: case-sensitive. Length: 1 to 127 characters.	N/A
Enable	Enabling status of the policy	N/A	Boolean: - true - false	The default value is true.
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: - false - true	The default value is false.
IPtmmaxnum	Max number of terminals for each IP	N/A	Unsigned integer: Value range: 1 to 15.	N/A
Action	Action for shared IP addresses with excessive terminals	N/A	Enumeration: 0—permit. 1—freeze.	N/A
Freezetime	Freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 5 to 720.	N/A
Logging	Log the event that a shared IP address has excessive terminals	N/A	Boolean: - false - true	The default value is false.

NETSHARE/PolicyJsonOptions

This table contains the match criteria information in the netshare control policy.

XML structure

```
<NETSHARE>
  <PolicyJsonOptions>
    <OptionJson>
      <PolicyJsonName></PolicyJsonName>
      <OptionJsonType></OptionJsonType>
      <OptionJsonValue></OptionJsonValue>
    </OptionJson>
  </PolicyJsonOptions>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	PolicyJsonOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyJsonName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionJsonType	Type of the criteria in the policy	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSetsIPv4. • 4—SourceAddressSetsIPv6. • 5—DestAddressSetsIPv4. • 6—DestAddressSetsIPv6. • 7—Users.

Column name	Column description	Column type	Data type and restrictions
			8—UserGroups.
OptionJsonValue	Match criteria content	Index	String, case-insensitive. Length: 1 to 65535.

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XML structure	2
Table description	3
Columns	3
NETSHARE/ShareStatusInfors	4
XML structure	4
Table description	4
Columns	5

NETSHARE

NETSHARE/Policies

This table contains netshare control policy information.

XML structure

```
<NETSHARE>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <PolicyDescription></PolicyDescription>
      <OptionContent></OptionContent>
      <Enable></Enable>
      <IPIDtrailsw></IPIDtrailsw>
      <IPtmmaxnum></IPtmmaxnum>
      <Action></Action>
      <Freezetime></Freezetime>
      <Logging></Logging>
    </Policy>
  </Policies>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyName	Name of the netshare	Index	String, case-insensitive.

Column name	Column description	Column type	Data type and restrictions
	control policy		Length: 1 to 63 characters.
PolicyDescription	Description of the policy	N/A	String: case-sensitive. Length: 1 to 127 characters.
OptionContent	Match criterion content	N/A	String, case-insensitive. Length: 1 to 65535.
Enable	Enabling status of the policy	N/A	Boolean: - true - false
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: - false - true
IPtmmaxnum	Max number of terminals for each IP	N/A	Unsigned integer. Value range: 1 to 15.
Action	Action for shared IP addresses with excessive terminals	N/A	Enumeration: 0—permit. 1—freeze
Freezetime	Freezing time	N/A	Unsigned integer Unit: Minute. Value range: 5 to 720.
Logging	Log the event that a shared IP address has excessive terminals	N/A	Boolean: - false - true

NETSHARE/PolicyOptions

This table contains the match criteria information in the netshare control policy.

XML structure

```

<NETSHARE>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionSeqNum></OptionSeqNum>

```

```

    <OptionType></OptionType>
    <OptionValue></OptionValue>
  </Option>
</PolicyOptions>
</NETSHARE>

```

Table description

Item	Description
Feature name	NETSHARE
Table name	PolicyOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionSeqNum	Sequence number of the match criterion after which the operation starts	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.
OptionType	Type of the criteria in the policy	N/A	Enumeration: 1—SourceZones. 2—DestZones. 3—SourceAddressSetsIPv4. 4—SourceAddressSetsIPv6. 5—DestAddressSetsIPv4. 6—DestAddressSetsIPv6. 7—Users. 8—UserGroups.
OptionValue	Match criteria content	N/A	String, case-insensitive. Length: 1 to 65535 characters.

NETSHARE/ShareStatusInfors

This table contains netshare control information.

XML structure

```
<NETSHARE>
  <ShareStatusInfors>
    <StatusInfors>
      <Chassis></Chassis>
      <Slot></Slot>
      <CpuID></CpuID>
      <TotalCount></TotalCount>
      <PositionOnNode></PositionOnNode>
      <DataType></DataType>
      <Mask></Mask>
      <VrfName></VrfName>
      <IPAddress></IPAddress>
      <Status></Status>
      <User></User>
      <TerminalNum></TerminalNum>
      <Policyname></Policyname>
      <RemainingTime></RemainingTime>
    </StatusInfors>
  </ShareStatusInfors>
</NETSHARE>
```

Table description

Item	Description
Feature name	NETSHARE
Table name	ShareStatusInfors
Table type	Multi-instance table
Row name	StatusInfors
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CpuID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
TotalCount	Total count	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A
PositionOnNode	Sequence number of the netshare control information after which the operation starts	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A
DataType	Type of the filter keyword	Index	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Mask	Mask value of node	Index	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31.	N/A
IPAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Status	Status of the shared IP address	N/A	Enumeration: 0—invalid. 1—frozen. 2—unfrozen.	N/A
User	Username suffixed with	N/A	String: case-insensitive.	N/A

	domain name		Length: 1 to 311	
TerminalNum	Number of terminals	N/A	Unsigned integer. Value range: 1 to 15.	N/A
Polycyname	Policy name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A
RemainingTime	Remaining freezing time	N/A	Unsigned integer. Unit: Minute. Value range: 0 to 720.	When the status is unfrozen, the remaining time is 0.

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Resource Summary for NETSHARE

Resource (Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policies	/api/v1/NETSHARE/Policies	Y	Y	Y	Y
PolicyOptions	/api/v1/NETSHARE/PolicyOptions	Y	N	N	N
PolicyJsonOptions	/api/v1/NETSHARE/PolicyJsonOptions	N	Y	Y	Y
ShareStatusInforms	/api/v1/NETSHARE/ShareStatusInforms	Y	N	N	N

NETSHARE

Policies

This table contains netshare control policy information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the netshare control policy	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PolicyDescription	Description of the policy	N/A	String: case-sensitive. Length: 1 to 127 characters.	N/A
OptionContent	Match criteria content	N/A	String, case-insensitive. Length: 1 to 65535.	N/A
Enable	Enabling status of the policy	N/A	Boolean: - true - false	The default value is true.
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: - false - true	The default value is false.
IPtmmaxnum	Max number of terminals for each IP	N/A	Unsigned integer. Value range: 1 to 15.	N/A
Action	Action for shared IP addresses with excessive terminals	N/A	Enumeration: 0—permit. 1—freeze	N/A
Freezetime	Freezing time	N/A	Unsigned integer.	N/A

			Unit: Minute. Value range: 5 to 720.	
Logging	Log the event that a shared IP address has excessive terminals	N/A	Boolean: - false - true	The default value is false.

Example

Example 1: Get information about netshare control policy.

JSON Request

GET /api/v1/NETSHARE/Policies

JSON Response

200 OK

```
{
  "PolicyName" : "a"
  "PolicyDescription" : "policya"
  "OptionContent" : "[{"optionType":1,"optionVal":["Local"]}]"
  "Enable" : "true"
  "IPIDtrailsw" : "false"
  "IPtmmaxnum" : "0"
  "Action" : "0"
  "Freezetime" : "0"
  "Logging" : "false"
}
```

Example 2: Add a new netshare control policy.

JSON Request

POST /api/v1/NETSHARE/Policies

```
{
  "PolicyName" : "3"
  "PolicyDescription" : "policy3"
  "OptionContent" : "[{"optionType":1,"optionVal":["Local"]}]"
  "Enable" : "true"
  "IPIDtrailsw" : " false"
  "IPtmmaxnum" : "0"
  "Action" : "0"
  "Freezetime" : "0"
```

```
"Logging" : "false"
}
```

JSON Response

201 Created

Example 3: Modify a netshare control policy.

JSON Request

PUT /api/v1/NETSHARE/Policies

```
{
  "PolicyName" : "3"
  "PolicyDescription" : "policy3"
  "OptionContent" : "[{"optionType":1,"optionVal":["Local"]}]"
  "Enable" : "true"
  "IPIDtrailsw" : " true"
  "IPtmmaxnum" : "15"
  "Action" : "0"
  "Freezetime" : "0"
  "Logging" : "false"
}
```

JSON Response

204 No Content

Example 4: Delete a netshare control policy.

JSON Request

DELETE /api/v1/NETSHARE/Policies

JSON Response

204 No Content

PolicyOptions

This table contains the match criteria information in the netshare control policy.

Properties

Column name	Column description	Column type	Data type and restrictions
PolicyName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionSeqNum	Sequence number of the match criterion after which the operation starts	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.
OptionType	Type of the criteria in the policy	N/A	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSetsIPv4. • 4—SourceAddressSetsIPv6. • 5—DestAddressSetsIPv4. • 6—DestAddressSetsIPv6. • 7—Users. • 8—UserGroups.
OptionValue	Match criteria content	N/A	String, case-insensitive. Length: 1 to 65535 characters.

Example

Example 1: Get match criterion in a netshare control policy.

JSON Request

GET /api/v1/NETSHARE/PolicyOptions

JSON Response

200 OK

```
{
  "PolicyName" : "1"
  "OptionSeqNum" : "1"
  "OptionType" : "1"
  "OptionValue" : "["Local"]"
}
```

PolicyJsonOptions

This table contains the match criteria information in the netshare control policy..

Properties

Column name	Column description	Column type	Data type and restrictions
PolicyJsonName	Name of the netshare control policy	Index	String: case-insensitive. Length: 1 to 63 characters.
OptionJsonType	Type of the criteria in the policy	Index	Enumeration: • 1—SourceZones. • 2—DestZones. • 3—SourceAddressSetsIPV4. • 4—SourceAddressSetsIPV6. • 5—DestAddressSetsIPV4. • 6—DestAddressSetsIPV6. • 7—Users. • 8—UserGroups.
OptionJsonValue	Match criteria content	Index	String, case-insensitive. Length: 1 to 65535.

Example

Example 1: Add a new match criterion to a netshare control policy.

JSON Request

POST /api/v1/NETSHARE/PolicyJsonOptions

```
{
  "PolicyName" : "1"
  "OptionType" : "3"
  "OptionValue" : "[\"Local\"]"
}
```

JSON Response

201 Created

Example 2: Modify a match criterion in a netshare control policy.

JSON Request

PUT /api/v1/NETSHARE/PolicyJsonOptions

```
{
  "PolicyName" : "1"
  "OptionType" : "3"
```



```
"OptionValue" : "[\"ZONE\"]"
}
```

JSON Response

204 No Content

Example 3: Delete a match criterion in a netshare control policy.

JSON Request

DELETE /api/v1/NETSHARE/PolicyJsonOptions

JSON Response

204 No Content

ShareStatusInforms

This table contains netshare control information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CpuID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
TotalCount	Total count	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A
PositionOnNode	Sequence number of the netshare control information after which the operation starts	Index	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A
DataType	Type of the filter keyword	Index	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Mask	Mask value of node	Index	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
VrfName	VRF name	N/A	String: case-insensitive. Length: 1 to 31	N/A

IPAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. Length: 1 to 46 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Status	Status of the shared IP address	N/A	Enumeration: • 0—invalid. • 1—frozen. • 2—unfrozen.	N/A
User	Username suffixed with domain name	N/A	String: case-insensitive. Length: 1 to 311.	N/A
TerminalNum	Number of terminals	N/A	Unsigned integer. Value range: 1 to 15.	N/A
Polycyname	Policy name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A
RemainingTime	Remaining freezing time	N/A	Unsigned integer, unit minute. Value range: 0 to 720.	When the status is unfrozen, the remaining time is 0.

Example

Example 1: Get information about netshare control information.

JSON Request

GET /api/v1/NETSHARE/ShareStatusInfors

JSON Response

200 OK

```
{
  "Chassis" : "0"
  "Slot" : "1"
  "CpuID" : "0"
  "TotalCount" : "1000"
  "PositionOnNode" : "200"
  "DataType" : "1"
  "Mask" : "452177845123456123"
  "VrfName" : "vpn1"
  "IPAddress" : "112.1.1.1"
  "Status" : "1"
  "User" : "aa"
  "TerminalNum" : "2"
  "Polycyname" : "1"
```

```
"RemainingTime" : "10"  
}
```

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NQA

NQA/Templates

This table contains information about NQA templates.

XML structure

```
<NQA>
  <Templates>
    <Template>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Frequency></Frequency>
      <ProbeTimeout></ProbeTimeout>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <NextHop></NextHop>
      <TriggerPassCount></TriggerPassCount>
      <TriggerFailCount></TriggerFailCount>
      <TriggerPerProbe></TriggerPerProbe>
    </Template>
  </Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type.	N/A	Enumeration: • 0—ICMP-echo. • 1—UDP-echo. • 2—TCP. • 3—DLSw. • 4—FTP. • 5—DHCP. • 6—SNMP. • 7—DNS. • 8—HTTP. • 9—UDP-jitter. • 10—Voice. • 11—Path-jitter. • 12—UDP-tracert. • 13—ARP. • 14—IMAP. • 15—POP3. • 16—RADIUS. • 17—RTSP. • 18—SIP. • 19—SMTP. • 20—SSL. • 21—HTTPS. • 22—TCP half-open. • 23—Throughput. • 24—Latency. • 25—Frame-loss. • 26—ICMP-jitter. • 27—SNMP-DCA. • 28—WAP.	NQA templates are not available for the following types of operations: • DLSw. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter. You must specify an operation type when you create a template. You cannot specify an operation type when you remove or delete a template. The operation type of an NQA template cannot be modified.
Description	Description of the template.	N/A	String, case-sensitive. Length: 1 to 200 characters.	By default, no description is specified for an NQA template.
Frequency	Interval in milliseconds at which the NQA operation repeats.	N/A	Unsigned integer. Value range: 0 to 604800000. Default: 5000.	If the operation is not completed when the interval expires, the next operation does not start.
ProbeTimeout	Probe timeout time in milliseconds.	N/A	Unsigned integer. Default: 3000.	The value range for the probe timeout time varies by the Type column. • FTP/HTTP/HTTPS/SNMP-DCA/WAP: 10 to 86400000.

Column name	Column description	Column type	Data type and restrictions	Remarks
				ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open: 10 to 3600000.
TTL	TTL for probe packets.	N/A	Unsigned integer. Value range: 1 to 255. Default: 20.	The ARP operation does not support this column.
ToS	ToS value in the IP packet header of probe packets.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The ARP operation does not support this column.
VRF	VRF instance where the operation is performed.	N/A	String, case-sensitive. Length: 1 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
URL	URL of the destination server.	N/A	String. Length: 1 to 255 characters.	This column cannot be configured with the DstIP or DstPort column simultaneously, except for the WAP operation. Only the FTP, HTTP, HTTPS, RTSP, and WAP operations support this column. By default, no URL is specified for the destination server. Valid URL formats vary by the Type column: - For FTP operations, enter the URL in one of the following formats: <code>ftp://host/filename</code> <code>ftp://host:port/filename</code> When performing the get operation, the <i>filename</i> argument is required. - For HTTP operations, enter the URL in one of the following formats: <code>http://host/resource</code> <code>http://host:port/resource</code> When performing the put operation, the <i>filename</i> argument does not take effect, even if it is specified. The file name for the put operation is determined by the filename command. - For HTTPS operations, enter the URL in one of the following formats: <code>https://host/resource</code> <code>https://host:port/resource</code> - For RTSP operations, enter the URL in one of the following formats: <code>rtsp://host/resource</code>

Column name	Column description	Column type	Data type and restrictions	Remarks
				○ rtsp://host:port/resource • For WAP operations, enter the URL in one of the following formats: ○ http://host/resource ○ http://host:port/resource ○ https://host/resource ○ https://host:port/resource
DstIP	Destination IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column cannot be configured with the URL column simultaneously, except for the WAP operation. The FTP, HTTP, HTTPS and RTSP operations do not support this column. By default, no destination address is specified. Destination IP address examples: • 1.1.1.1. • 1:1::1:1. This column and the URL column cannot both be configured.
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	This column cannot be configured with the URL column simultaneously, except in the WAP operation. The ICMP-echo, ARP, FTP, HTTP, HTTPS, and RTSP operations do not support this column. The default destination port number varies by the Type column: • UDP-echo: Not specified. • TCP: Not specified. • SNMP: 161. • DNS: 53. • IMAP: 143. • POP3: 110. • RADIUS: 1812. • RTSP: 554. • SIP: 5060 (UDP) or 5061 (TCP). • SMTP: 25. • SSL: Not specified. • SNMP-DCA: 161. • WAP: 9201.
SrcIP	Source IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	By default, no source IP address is specified. Source IP address examples: • 1.1.1.1. • 1:1::1:1. The source IP address must be the IP address of a local interface, and the interface must be up.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Source port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	Only the DNS operation supports this column. By default, no source port number is specified.
NextHop	Next hop IP address.	N/A	String. Length: 1 to 46 characters.	Only the ICMP-echo, TCP, DNS and TCP half-open operations support this column. Next hop IP address examples: 1.1.1.1. 1::1:1:1.
TriggerPassCount	Number of consecutive successful probes to determine a successful operation event.	N/A	Unsigned integer. Value range: 1 to 15. Default: 3.	In the same table, TriggerPassCount can be configured only when TriggerPerProbe is set to false. If TriggerPassCount and TriggerPerProbe are configured in different tables, the most recent configuration takes effect.
TriggerFailCount	Number of consecutive probe failures to determine an operation failure.	N/A	Unsigned integer. Value range: 1 to 15. Default: 3.	In the same table, TriggerFailCount can be configured only when TriggerPerProbe is set to false. If TriggerFailCount and TriggerPerProbe are configured in different tables, the most recent configuration takes effect..
TriggerPerProbe	Report the result of each probe.	N/A	Boolean: - true—Report the result of each probe. - false—Report according to TriggerPassCount and TriggerFailCount (default).	In the same table, TriggerPerProbe can be configured only when both TriggerPassCount and TriggerFailCount are set to false. If TriggerPerProbe and TriggerPassCount/TriggerFailCount are configured in different tables, the most recent configuration takes effect. Only the ICMP-echo, DNS and TCP half-open operations support this column.

NQA/IcmpEchoTemplates

This table contains information about ICMP-echo templates.

XML structure

```

<NQA>
  <IcmpEchoTemplates>
    <IcmpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>

```

```

        <OutIf></OutIf>
    </IcmpEchoTemplate>
</IcmpEchoTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoTemplates
Table type	Multi-instance table
Row name	IcmpEchoTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809.
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507. Default: 100.	N/A
SrcIf	Source interface whose primary IP address will be used as the source IP address for the requests.	N/A	String. Length: 2 to 47 characters.	By default, no source IP address is specified. The requests use the primary IP address of the outgoing interface as their source IP address. If both the source IP address and source interface are specified, the most recent configuration takes effect. The specified source interface must be up. The following types of interfaces can be configured as the source interface for the operation: - VLAN interface. - Layer 3 Ethernet

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface. • Layer 3 aggregate interface. • EFM interface. • Ethernet channel interface. • Management interface. • Layer 3 redundancy interface. Support for interface types depends on the device model.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/UdpEchoTemplates

This table contains information about UDP-echo templates.

XML structure

```

<NQA>
  <UdpEchoTemplates>
    <UdpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      </ExpectFailedData>
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
        <RawFlag></RawFlag>
      </RequestDataFill>
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
    </UdpEchoTemplate>
  </UdpEchoTemplates>
</NQA>

```

```

        </ReleaseDataFill>
    </UdpEchoTemplate>
</UdpEchoTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoTemplates
Table type	Multi-instance table
Row name	UdpEchoTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809. DataFill is similar to RequestDataFill, and it should not be specified with RequestDataFill simultaneously.
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507. Default: 100.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.

Column name	Column description	Column type	Data type and restrictions	Remarks
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: - Data. - HexFlag. - RawFlag.	By default, no payload fill string is specified. All the members must be specified. RequestDataFill is similar to DataFill, and it should not be specified with DataFill simultaneously. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string

Column name	Column description	Column type	Data type and restrictions	Remarks
				and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
RawFlag	Whether the raw mode is used.	N/A	Boolean: - true—Raw mode. - false—General mode (default).	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: - Data. - HexFlag	By default, no payload fill string is specified. Both Data and HexFlag must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A

NQA/TcpTemplates

This table contains information about TCP templates.

XML structure

```

<NQA>
  <TcpTemplates>
    <TcpTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>

```

```

        <Offset></Offset>
        <HexFlag></HexFlag>
    </ExpectFailedData>
    <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
    </RequestDataFill >
    <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
    </ReleaseDataFill>
</TcpTemplate>
</TcpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	TcpTemplates
Table type	Multi-instance table
Row name	TcpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	The default payload fill string is the hexadecimal string 00010203040506070809. DataFill is similar to RequestDataFill, and it should not be specified with RequestDataFill simultaneously.
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag	By default, no expected data is specified. The expected data is checked only when both data-fill and expect-data are specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: - Data. - Offset. - HexFlag	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: - Data. - HexFlag	By default, no payload fill string is specified. Both Data and HexFlag must be specified. RequestDataFill is similar to DataFill, and it should

Column name	Column description	Column type	Data type and restrictions	Remarks
				not be specified with DataFill simultaneously. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: - Data. - HexFlag	By default, no payload fill string is specified. Both Data and HexFlag must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A

NQA/FtpTemplates

This table contains information about FTP templates.

XML structure

```

<NQA>
  <FtpTemplates>
    <FtpTemplate>
      <Name></Name>
      <Operation></Operation>
      <UserName></UserName>
      <Password></Password>
      <FileName></FileName>
      <Mode></Mode>
    </FtpTemplate>
  </FtpTemplates>
</NQA>

```

```
</FtpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	FtpTemplates
Table type	Multi-instance table
Row name	FtpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Operation	FTP operation type.	N/A	Enumeration: 1—Get operation (default). 2—Put operation.	By default, the FTP operation type is get, which means obtaining files from the FTP server.
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no FTP login username is specified.
Password	Login password.	N/A	String. Length : 1 to 32 characters.	By default, no FTP login password is specified.
FileName	Name of the file to be transferred.	N/A	String. Length: 1 to 200 characters.	This configuration is required for the put operation and does not take effect for the get operation. By default, no file is specified. The forward slash (/) is not supported in FileName.
Mode	The data transmission mode.	N/A	Enumeration: 0—Active mode (default). 1—Passive mode.	N/A

NQA/SnmpTemplates

This table contains information about SNMP templates.

XML structure

```
<NQA>
  <SnmpTemplates>
    <SnmpTemplate>
      <Name></Name>
      <Community></Community>
    </SnmpTemplate>
  </SnmpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SnmpTemplates
Table type	Multi-instance table
Row name	SnmpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	The default community name is public .

NQA/DnsTemplates

This table contains information about DNS templates.

XML structure

```
<NQA>
  <DnsTemplates>
    <DnsTemplate>
      <Name></Name>
      <ResolveTarget></ResolveTarget>
      <ResolveType></ResolveType>
    </DnsTemplate>
  </DnsTemplates>
</NQA>
```

```

    <ExpectIP></ExpectIP>
    <OutIf></OutIf>
  </DnsTemplate>
</DnsTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	DnsTemplates
Table type	Multi-instance table
Row name	DnsTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResolveTarget	Domain name that needs to be translated.	N/A	String. Length: 1 to 255 characters.	By default, no domain name is specified.
ResolveType	Domain name resolution type.	N/A	Enumeration: 1—Type A query (default). 28—Type AAAA query.	A type A query resolves a domain name to a mapped IPv4 address, and a type AAAA query to a mapped IPv6 address.
ExpectIP	The IPv4 or IPv6 address that is expected to be returned.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Expected IP address examples: 1.1.1.1. 1:1::1:1.
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/HttpTemplates

This table contains information about HTTP and HTTPS templates.

XML structure

```
<NQA>
  <HttpTemplates>
    <HttpTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <ExpectStatus></ExpectStatus>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
      </ExpectData>
      <SslClientPolicy></SslClientPolicy>
    </HttpTemplate>
  </HttpTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	HttpTemplates
Table type	Multi-instance table
Row name	HttpTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 32 characters.	By default, no login password is specified.
Operation	Operation type.	N/A	Enumeration: 1—Get operation	By default, the operation type is get, which means obtaining files from the

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). 2—Post operation. 3—Raw Operation.	server. In the raw operation, use the raw-request command to specify the content of the HTTP request to be sent to the server.
Version	Version	N/A	Enumeration: 0—Version1.0 (default). 1—Version1.1.	N/A
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	This step is required for the raw operation. By default, no contents are specified. The following formats are not supported: Xq/qu/qui/quitX, XquitYaaaX, Xr/re/ret/retu/retur/returnX or XreturnYaaaX(X represents 0 to n spaces, Y represents 1 to n spaces and aaa represents a character string without spaces.)
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, No expected status code is configured..
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search the expected response string.	Offset in bytes after which the client starts to search for the expected string	Unsigned integer. Value range: 0 to 1000.	N/A
SslClientPolicy	SSL client policy.	N/A	String, case-insensitive. Length: 1 to 31 characters.	The HTTP operation does not support this column. By default, no SSL client policy is specified.

NQA/ImapTemplates

This table contains information about IMAP templates.

XML structure

```
<NQA>
  <ImapTemplates>
    <ImapTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Mailbox></Mailbox>
    </ImapTemplate>
  </ImapTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ImapTemplates
Table type	Multi-instance table
Row name	ImapTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 40 characters.	By default, no login password is specified.
Mailbox	Mailbox name.	N/A	String. Length: 1 to 64 characters.	By default, the mailbox is INBOX .

NQA/Pop3Templates

This table contains information about POP3 templates.

XML structure

```
<NQA>
  <Pop3Templates>
    <Pop3Template>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
    </Pop3Template>
  </Pop3Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Pop3Templates
Table type	Multi-instance table
Row name	Pop3Template
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 40 characters.	By default, no login password is specified.

NQA/RadiusTemplates

This table contains information about RADIUS templates.

XML structure

```
<NQA>
  <RadiusTemplates>
    <RadiusTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Key></Key>
    </RadiusTemplate>
  </RadiusTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RadiusTemplates
Table type	Multi-instance table
Row name	RadiusTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 253 characters.	By default, no login username is specified.
Password	Login password.	N/A	String. Length: 1 to 64 characters.	By default, no login password is specified.
Key	Shared key.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/RtspTemplates(not supported)

This table contains information about RTSP templates.

XML structure

```
<NQA>
  <RtspTemplates>
    <RtspTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <RequestMethod></RequestMethod>
    </RtspTemplate>
  </RtspTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RtspTemplates
Table type	Multi-instance table
Row name	RtspTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, no expected status code is configured.
RequestMethod	Request method.	N/A	Enumeration: 1—Options method (default). 2—Describe method.	By default, the request method is options, which means obtaining request methods that available on the server.

NQA/SipTemplates(not supported)

This table contains information about SIP templates.

XML structure

```
<NQA>
  <SipTemplates>
    <SipTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <TransProtocol></TransProtocol>
    </SipTemplate>
  </SipTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SipTemplates
Table type	Multi-instance table
Row name	SipTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	For example: 200,300-400,500. By default, no expected status is specified.
TransProtocol	Transport layer protocol.	N/A	Enumeration: • 6—TCP. • 17—UDP (default).	N/A.

NQA/SslTemplates

This table contains information about SSL templates.

XML structure

```
<NQA>
```

```

<SslTemplates>
  <SslTemplate>
    <Name></Name>
    <ClientPolicy></ClientPolicy>
  </SslTemplate>
</SslTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SslTemplates
Table type	Multi-instance table
Row name	SslTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	By default, no SSL client policy is specified.

NQA/SnmpDcaTemplates

This table contains information about SNMP-DCA templates.

Reading of and modification to the table must follow the order of the column in the table.

XML structure

```

<NQA>
  <SnmpDcaTemplates>
    <SnmpDcaTemplate>
      <Name></Name>
      <Community></Community>
      <Version></Version>
      <AgentType></AgentType>
      <CPU>

```

```

        <Threshold></Threshold>
        <Weight></Weight>
    </CPU>
    <Memory>
        <Threshold></Threshold>
        <Weight></Weight>
    </Memory>
    <Disk>
        <Threshold></Threshold>
        <Weight></Weight>
    </Disk>
    <OID>
        <OidString></OidString>
        <Threshold></Threshold>
        <Weight></Weight>
    </OID>
</SnmpDcaTemplate>
</SnmpDcaTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SnmpDcaTemplates
Table type	Multi-instance table
Row name	SnmpDcaTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	The default community name is public .
Version	SNMP version.	N/A	Enumeration: 1—SNMPv1 (default). 2—SNMPv2c.	N/A
AgentType	SNMP agent type.	N/A	Enumeration: 0—Net-Snmp (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Windows. 2—UserDefined.	
CPU	CPU usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	CPU usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 80.	N/A
Weight	CPU usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 3.	N/A
Memory	Memory usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	Memory usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 70.	N/A
Weight	Memory usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 2.	N/A
Disk	Disk usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Threshold	Disk usage threshold.	N/A	Unsigned integer. Value range: 0 to 100. Default: 90.	N/A
Weight	Disk usage weight.	N/A	Unsigned integer. Value range: 0 to 100. Default: 4.	N/A
OID	OID information of the MIB object whose statistics the	Data structure	Members include: - OidString. - Threshold. - Weight.	This column can appear at most 8 times in this row. By default, no OID data is

Column name	Column description	Column type	Data type and restrictions	Remarks
	SNMP DCA operation collects.			specified. All the members must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
OidString	MIB subtree by its root node's OID.	N/A	Dotted numeric string. Length: 1 to 255 characters	Example for OID: 1.3.6.1.4.1.2021.11.11.0.
Threshold	Threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NQA/WapTemplates

This table contains information about WAP templates.

XML structure

```

<NQA>
  <WapTemplates>
    <WapTemplate>
      <Name></Name>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      </ExpectData>
    </WapTemplate>
  </WapTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	WapTemplates
Table type	Multi-instance table
Row name	WapTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config operations, all members are returned if the default setting of one member is changed.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	When HexFlag is specified, the string must be a hexadecimal string and contain an even number of characters.
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string (default).	N/A

NQA/TcpHalfOpenTemplates

This table contains information about TCP half-open templates.

XML structure

```

<NQA>
  <TcpHalfOpenTemplates>
    <TcpHalfOpenTemplate>
      <Name></Name>
      <PortDetectEnable></PortDetectEnable>
      <OutIf></OutIf>
    </TcpHalfOpenTemplate>
  </TcpHalfOpenTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	TcpHalfOpenTemplates
Table type	Multi-instance table
Row name	TcpHalfOpenTemplate
Restrictions	The row creation and deletion of this table is along with table Templates.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: - true—Port detection mode is enabled. - false—Port detection mode is disabled (default).	N/A
OutIf	Output interface.	N/A	String. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/Entries

This table contains information about NQA entries.

XML structure

```
<NQA>
  <Entries>
    <Entry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <Type></Type>
      <Description></Description>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <Frequency></Frequency>
      <HistoryEnable></HistoryEnable>
      <HistoryHoldTime></HistoryHoldTime>
      <HistoryNumber></HistoryNumber>
```

```

<NextHop></NextHop>
<ProbeCount></ProbeCount>
<ProbeTimeout></ProbeTimeout>
<BypassRouteEnable></BypassRouteEnable>
<SrcIP></SrcIP>
<SrcPort></SrcPort>
<StatHoldTime></StatHoldTime>
<StatInterval></StatInterval>
<StatMaxGroup></StatMaxGroup>
<TTL></TTL>
<ToS></ToS>
<VRF></VRF>
<URL></URL>
</Entry>
</Entries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • 0—ICMP-echo • 1—UDP-echo • 2—TCP • 3—DLSw • 4—FTP	Type ICMP-echo, ICMP-jitter and UDP-jitter are supported. You must specify a type when you create an entry that

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—DHCP • 6—SNMP • 7—DNS • 8—HTTP • 9—UDP-jitter • 10—VOICE • 11—Path-jitter • 12—UDP-tracert • 13—ARP • 14—IMAP • 15—POP3 • 16—Radius • 17—RTSP • 18—SIP • 19—SMTP • 20—SSL • 21—HTTPS • 22—TCP Half-open • 23—Throughput • 24—Latency • 25—Frame-Loss • 26—ICMP-jitter • 27—SNMP-DCA • 28—WAP	does not exist. You cannot specify a type when you remove or delete an entry. The type cannot be modified.
Description	Entry description	N/A	String, case-sensitive. Length: 1 to 200 characters.	By default, no description is specified for an entry.
DstIP	Destination IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column and the URL column cannot be both configured. The type FTP, HTTP, HTTPS and RTSP types do not support this column. Type ICMP-echo and UDP-jitter support IPv6 address. By default, no destination address is specified. IPv4 example: 1.1.1.1. IPv6 example: 1:1::1:1.
DstPort	Destination port number for the	N/A	Unsigned integer. Value range: 1 to 65535.	The type ICMP-echo,

Column name	Column description	Column type	Data type and restrictions	Remarks
	operation			ICMP-Jitter and FTP do not support this column. The default value of destination port depend on the Type column. • UDP-echo: none. • TCP: none. • SNMP: 161. • DNS: 53. • IMAP: 143. • POP3: 110. • Radius: 1812. • RTSP: 554. • SIP: 5060(UDP) or 5061(TCP). • SMTP: 25. • SSL: none. • UDP-jitter:none.
Frequency	Probe interval in milliseconds	N/A	Unsigned integer. Value range: 0 to 604800000.	The default value of probe interval depend on the Type column. • Voice/Path-jitter : 60000. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/SNMP/UDP-trace rt/ICMP-jitter/UDP-jitter: 0.
HistoryEnable	Whether to enable the saving of history records	N/A	EnableState: • enable—Enable the saving of history records. • disable—Disable the saving of history records.	The default state depend on the Type column. • UDP-tracert: enable. • ICMP-echo/TCP/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/SNMP: disable.
HistoryHoldTime	History records lifetime in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	The default value is 120.
HistoryNumber	Maximum number of history records that can be saved	N/A	Unsigned integer. Value range: 0 to 50.	The default value is 50.
NextHop	Next hop IPv4 or	N/A	String.	Only the type

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 address		Length: 1 to 46 characters.	ICMP-echo support this column. IPv4 example: 1.1.1.1. IPv6 example: 1::1:1:1.
ProbeCount	Probe times per operation	N/A	Unsigned integer. Value range: 1 to 15.	The default value of probe count depend on the Type column. - UDP-tracert: 3. - ICMP-echo/TC P/UDP-echo/DHCP/DLSw/DNS/FTP/HTTP/SNMP/ICMP-jitter/UDP-jitter: 1. The value ranges of probe count depend on the Type column. - UDP-tracert: 1 to 10. - ICMP-echo/TC P/UDP-echo/DHCP/DLSw/DNS//FTP/HTTP/SNMP/ICMP-jitter/UDP-jitter: 1 to 15.
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer. Default: 3000.	The value ranges of probe timeout depends on the Type column. - FTP/HTTP/HTTPS: 10 to 86400000. - ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP Half-open: 10 to 3600000.
BypassRoute Enable	Whether to enable the routing table bypass feature to test the connectivity to the direct destination	N/A	EnableState: - enable—Enable the routing table bypass feature. - disable—Disable the routing table bypass feature.	The default state is disable.
SrcIP	Source IPv4 or	N/A	String, dotted decimal notation.	Type ICMP-echo

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 address for the probe packets		Or Hexadecimal string, colon-separated. Length: 1 to 46 characters.	and UDP-jitter support IPv6 address. By default, no source address is specified. IPv4 example: 1.1.1.1. IPv6 example: 1::1:1. The source IPv4 or IPv6 address must be the IPv4 or IPv6 address of a local interface, and the interface must be up.
SrcPort	Source port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	Type ICMP-echo, DHCP, DLSW, DNS, ICMP-jitter, Path-jitter, TCP, FTP and HTTP do not support this column. The default source port number varies by operation type: - Frame-loss/Throughput/Latency: 49184 - Udp-echo/Snmp/UDP-tracert/UDP-jitter/Voice: none
StatHoldTime	Statistics groups hold time in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	The default value is 120.
StatInterval	Statistics collection interval in minutes	N/A	Unsigned integer. Value range: 1 to 35791394.	The default value is 60.
StatMaxGroup	Maximum number of statistics groups	N/A	Unsigned integer. Value range: 0 to 100.	The default value is 2.
TTL	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 255.	Type ARP does not support this column. The default value of TTL depend on the Type column. - UDP-tracert: 30. - ICMP-echo/TCP/UDP-echo/D

Column name	Column description	Column type	Data type and restrictions	Remarks
				HCP/DLSw/DNS/FTP/HTTP/SNMP/ICMP-jitter/UDP-jitter: 20.
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	Type ARP does not support this column.
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 0 to 31 characters.	By default, no VRF is specified and the operation is performed on the public network.
URL	URL of the destination server	N/A	String. Length: 1 to 255 characters.	This column and the DstIP, DstPort column cannot be configured simultaneously. Only the types of FTP, HTTP, HTTPS and RTSP support this column. By default, no URL is specified for the destination server. The formats of URL depend on the Type column. - FTP Enter the URL in one of the following formats: ftp://host/filename ftp://host:port/filename When performing the get operation, the file name is required. When performing the put operation, the filename argument does not take effect, even if it is specified. The file name for the put operation is determined by the FileName column. - HTTP Enter the URL in one of the following formats: http://host/resource

Column name	Column description	Column type	Data type and restrictions	Remarks
				http://host:port/resource • HTTPS Enter the URL in one of the following formats: https://host/resource https://host:port/resource • RTSP Enter the URL in one of the following formats: rtsp://host/resource rtsp://host:port/resource

NQA/IcmpEchoEntries

This table contains information about ICMP-Echo entries.

XML structure

```

<NQA>
  <IcmpEchoEntries>
    <IcmpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
    </IcmpEchoEntry>
  </IcmpEchoEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoEntries
Table type	Multi-instance table
Row name	IcmpEchoEntry

Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-insensitive. Length: 1 to 200 characters.	The default payload fill string varies by device model.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	The default value is 100.
SrcIf	Source interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified source interface must be up.
OutIf	Output interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

NQA/IcmpJitterEntries

This table contains information about ICMP-jitter entries.

XML structure

```

<NQA>
  <IcmpJitterEntries>
    <IcmpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
    </IcmpJitterEntry>
  </IcmpJitterEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpJitterEntries
Table type	Multi-instance table
Row name	IcmpJitterEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000. Default: 20	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 10	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000. Default: 3000	N/A

NQA/UdpJitterEntries

This table contains information about UDP-jitter entries.

XML structure

```
<NQA>
  <UdpJitterEntries>
    <UdpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
```

```

    <PktTimeout></PktTimeout>
    <DataFill></DataFill>
    <DataSize></DataSize>
  </UdpJitterEntry>
</UdpJitterEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	UdpJitterEntries
Table type	Multi-instance table
Row name	UdpJitterEntry
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000. Default: 20	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000. Default: 10	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000. Default: 3000	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-insensitive. Length: 1 to 200 characters.	The default payload fill string varies by device model.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 68 to 65507. Default: 100	N/A

NQA/Schedules

This table contains information about NQA entry schedules. You cannot edit a Schedules after it is configured.

XML structure

```
<NQA>
  <Schedules>
    <Schedule>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <StartTime>
        <StartNow></StartNow>
        <Time></Time>
      </StartTime>
      <Lifetime>
        <Forever></Forever>
        <Duration></Duration>
      </Lifetime>
      <Recurring></Recurring>
    </Schedule>
  </Schedules>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Schedules
Table type	Multi-instance table
Row name	Schedule
Restrictions	The row creation and deletion of this table is along with table Entries.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Start time	N/A	Member include: - StartNow - Time	When StartNow is true, StartTime cannot be specified. When StartTime is specified, StartNow must be false.
StartNow	Start now	N/A	Boolean: - true - false	True means to start the operation immediately.
Time	Start time and date of an operation	N/A	Date/Time. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Lifetime	The duration of an operation	N/A	Member include: - Forever - Duration	When Forever is true, Duration cannot be specified. When Duration is specified, Forever must be false.
Forever	Forever	N/A	Boolean: - true - false	True means to perform the operation until you stop it.
Duration	The duration of an operation in seconds	N/A	Unsigned integer. Value range: 1 to 2147483647.	When Recurring is enabled, the value range for Duration is 1 to 86399.
Recurring	Recurring	N/A	EnableState: - enable—Run the operation automatically at the start time and for the specified duration. - disable—The operation is performed only once at the specified date and time.	The default state is disable. When Recurring is enable, Forever must be designated as false.

NQA/ReactionTriggerFailItems

This table contains information about reaction trigger fail items. You cannot edit a reaction trigger failItem after it is configured.

XML structure

```

<NQA>
  <ReactionTriggerFailItems>
    <ReactionTriggerFailItem>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <Occurrences></Occurrences>
    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>

```

```

    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	ReactionTriggerFailItems
Table type	Multi-instance table
Row name	ReactionTriggerFailItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
Occurrences	Maximum number of consecutive probe failures	N/A	Unsigned integer. Value range: 1 to 16.	N/A

NQA/Reactions

This table contains information about reaction items. You cannot edit a reaction item after it is configured.

XML structure

```

<NQA>
  <Reactions>
    <Reaction>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <CheckedElement></CheckedElement>
      <ThresholdType>

```

```

    <Type></Type>
    <Occurrences></Occurrences>
  </ThresholdType>
  <ThresholdValue>
    <UpperLimit></UpperLimit>
    <LowerLimit></LowerLimit>
  </ThresholdValue>
  <ActionType></ActionType>
</Reaction>
</Reactions>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Reactions
Table type	Multi-instance table
Row name	Reaction
Restrictions	The reaction can be configured only if the corresponding NQA entry is created. If the NQA entry is deleted, all reaction within it will be deleted.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Monitored element	N/A	Enumeration: 1—probe-duration 2—probe-fail 3—rtt 4—packet-loss 5—jitter-sd 6—jitter-ds 7—icpif 8—mos 9—owd-sd 10—owd-ds	Support for the CheckedElement varies by NQA entry operation type. Details are as follow: - ICMP-echo: probe-duration/probe-fail - ICMP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-losses/rtt - UDP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-losses

Column name	Column description	Column type	Data type and restrictions	Remarks
				s/rtt
ThresholdType	Threshold type	Data structure	Member include: - Type - Occurrences	The ThresholdType is valid if monitored element is jitter-sd, jitter-ds, packet-loss, probe-duration, probe-fail or rtt.
Type	Threshold violation type	N/A	Enumeration: 1—average 2—consecutive 3—accumulate	Support for the violation type varies by monitored element. Details are as follow: - jitter-sd/jitter-ds: average/accumulate - packet-loss: accumulate. - probe-duration: average/consecutive/accumulate. - probe-fail: consecutive/accumulate. - rtt: accumulate/average

Column name	Column description	Column type	Data type and restrictions	Remarks
Occurrences	Maximum number of threshold violations	N/A	Unsigned integer.	The value of Occurrences is valid if the Type is consecutive or accumulate. The value range of occurrences depends on the NQA entry operation type and the monitored element. Details are as follow: - jitter-ds/jitter-sd: The value range of accumulate-occurrences is 1 to 14999 for ICMP-jitter and UDP-jitter operations. - packet-loss: The value range of accumulate-occurrences is 1 to 15000 for ICMP-jitter and UDP-jitter operations. - probe-duration: The value range of accumulate-occurrences is 1 to 15. The value range of consecutive-occurrences is 1 to 16. - probe-fail: The value range of accumulate-occurrences is 1 to 15. The value range of consecutive-occurrences is 1 to 16. - rtt: The value range of accumulate-occurrences is 1 to 15000 for ICMP-jitter and UDP-jitter operations.
ThresholdValue	Value range of threshold	Data structure	Member include: - UpperLimit - LowerLimit	The value range of threshold is valid if the monitored element is jitter-sd, jitter-ds, owd-sd, owd-ds, icpif, mos, probe-duration or RTT.
UpperLimit	Upper limit of threshold	N/A	Unsigned integer.	The value range of threshold depends on the value of CheckedElement. Details are as follow: - jitter-ds/jitter-sd: 0 to 3600000. - owd-ds/owd-sd: 0 to

Column name	Column description	Column type	Data type and restrictions	Remarks
				3600000. • icpif: 1 to 100. • mos: 1 to 500. • probe-duration: 0 to 3600000. • rtt: 0 to 3600000.
LowerLimit	Lower limit of threshold	N/A	Unsigned integer.	The value range of threshold depends on the value of CheckedElement. Details are as follow: • jitter-ds/jitter-sd: 0 to 3600000. • owd-ds/owd-sd: 0 to 3600000. • icpif: 1 to 100. • mos: 1 to 500. • probe-duration: 0 to 3600000. • rtt: 0 to 3600000.
ActionType	Action to be triggered	N/A	Enumeration: • 0—none • 1—trap-only • 2—trigger-only	Support for the action varies by monitored element. Details are as follow: • jitter-ds/jitter-sd/rtt: none/trap-only. The default action is none • owd-ds/owd-sd: not support. • icpif: none/trap-only. The default action is none. • mos: none/trap-only. The default action is none. • packet-loss: none/trap-only. The default action is none. • probe-duration: none/trap-only. The default action is none. • probe-fail(for trap): none/trap-only. The default action is none. • probe-fail(for trigger): trigger-only.

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NQA

NQA/Templates

This table contains information about NQA templates.

XML structure

```
<NQA>
  <Templates>
    <Template>
      <Name></Name>
      <Type></Type>
      <Description></Description>
      <Frequency></Frequency>
      <ProbeTimeout></ProbeTimeout>
      <TTL></TTL>
      <ToS></ToS>
      <VRF></VRF>
      <URL></URL>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <SrcIP></SrcIP>
      <SrcPort></SrcPort>
      <NextHop></NextHop>
      <TriggerPassCount></TriggerPassCount>
      <TriggerFailCount></TriggerFailCount>
      <TriggerPerProbe></TriggerPerProbe>
      <TestDestination></TestDestination>
    </Template>
  </Templates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Templates
Table type	Multi-instance table
Row name	Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: • 0—ICMP-echo. • 1—UDP-echo. • 2—TCP. • 3—DLSw • 4—FTP. • 5—DHCP • 6—SNMP. • 7—DNS. • 8—HTTP. • 9—UDP-jitter • 10—Voice • 11—Path-jitter • 12—UDP-tracert • 13—ARP. • 14—IMAP. • 15—POP3. • 16—RADIUS. • 17—RTSP. • 18—SIP. • 19—SMTP. • 20—SSL. • 21—HTTPS. • 22—TCP Half-open. • 23—Throughput. • 24—Latency. • 25—Frame-loss. • 26—ICMP-jitter. • 27—SNMP-DCA. • 28—WAP.	NQA templates are not available for the following types of operations: • DLSW. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter.
Description	Description of the template.	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
Frequency	Interval in milliseconds at which the NQA operation repeats.	N/A	Unsigned integer. Value range: 0 to 604800000.	N/A
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer.	The value range for the probe timeout time varies by the Type column. • FTP/HTTP/HTTPS/SNMP-DCA/WAP: 10 to 86400000.

Column name	Column description	Column type	Data type and restrictions	Remarks
				ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open: 10 to 3600000.
TTL	TTL for probe packets	N/A	Unsigned integer. Value range: 1 to 255.	The ARP operation does not support this column..
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255.	The ARP operation does not support this column.
VRF	VRF instance where the operation is performed.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
URL	URL of the destination server.	N/A	String. Length: 1 to 255 characters.	This column cannot be configured with the DstIP or DstPort column simultaneously, except for the WAP operation. Only the FTP, HTTP, HTTPS, RTSP, and WAP operations support this column.
DstIP	Destination IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column cannot be configured with the URL column simultaneously, except for the WAP operation. The FTP, HTTP, HTTPS and RTSP operations do not support this column.
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	This column cannot be configured with the URL column simultaneously, except in the WAP operation. The ICMP-echo, ARP, FTP, HTTP, HTTPS, and RTSP operations do not support this column.
SrcIP	Source IPv4 or IPv6 address for the probe packets.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
SrcPort	Source port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	Only the DNS operation supports this column.
NextHop	Next hop IP address	N/A	String. Length:1 to 46 characters.	Only the ICMP-echo, TCP, DNS and TCP half-open operations support this column.
TriggerPass Count	Number of consecutive successful probes to determine a	N/A	Unsigned integer. Value range: 1 to 15.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	successful operation event.			
TriggerFailCount	Number of consecutive probe failures to determine an operation failure.	N/A	Unsigned integer. Value range: 1 to 15.	N/A
TriggerPerProbe	Report the result of each probe.	N/A	Boolean: - true—Report the result of each probe. - false—Report according to TriggerPassCount and TriggerFailCount.	Only the ICMP-echo, DNS and TCP half-open operations support this column.
TestDestination	Destination of the operation.	N/A	String. Length: 1 to 255 characters.	The value can be either of the following: - Destination IP address. - Destination IP address and port number. - Destination URL. This column is not supported currently.

NQA/IcmpEchoTemplates

This table contains information about ICMP-echo templates.

XML structure

```

<NQA>
  <IcmpEchoTemplates>
    <IcmpEchoTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
    </IcmpEchoTemplate>
  </IcmpEchoTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoTemplates
Table type	Multi-instance table
Row name	IcmpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	N/A
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
SrcIf	Full name of an interface, including the interface type and number. Source interface whose primary IP address will be used as the source IP address for the requests.	N/A	String. Length: 2 to 47 characters.	If both the source IP address and source interface are specified, the most recent configuration takes effect.
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/UdpEchoTemplates

This table contains information about UDP-echo templates.

XML structure

```
<NQA>  
  <UdpEchoTemplates>
```

```

<UdpEchoTemplate>
  <Name></Name>
  <DataFill></DataFill>
  <DataSize></DataSize>
  <ExpectData>
    <Data></Data>
    <Offset></Offset>
    <HexFlag></HexFlag>
  </ExpectData>
  <ExpectFailedData>
    <Data></Data>
    <Offset></Offset>
    <HexFlag></HexFlag>
  </ExpectFailedData>
  <RequestDataFill>
    <Data></Data>
    <HexFlag></HexFlag>
    <RawFlag></RawFlag>
  </RequestDataFill>
  <ReleaseDataFill>
    <Data></Data>
    <HexFlag></HexFlag>
  </ReleaseDataFill>
</UdpEchoTemplate>
</UdpEchoTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	UdpEchoTemplates
Table type	Multi-instance table
Row name	UdpEchoTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataSize	Payload size in each request.	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters.	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: - Data. - HexFlag. - RawFlag.	All the members must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RawFlag	Whether the raw mode is used.	N/A	Boolean: - true—Raw mode. - false—General mode.	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: - Data. - HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A

NQA/TcpTemplates

This table contains information about TCP templates.

XML structure

```

<NQA>
  <TcpTemplates>
    <TcpTemplate>
      <Name></Name>
      <DataFill></DataFill>
      <ExpectData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <HexFlag></HexFlag>
      </ExpectFailedData>
      <RequestDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </RequestDataFill>
      <ReleaseDataFill>
        <Data></Data>
        <HexFlag></HexFlag>
      </ReleaseDataFill>
    </TcpTemplate>
  </TcpTemplates>
</NQA>

```

```

    </ExpectData>
  </TcpTemplate>
</TcpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	TcpTemplates
Table type	Multi-instance table
Row name	TcpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for each request.	N/A	String. Length: 1 to 200 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client starts to search for the expected string.		Value range: 0 to 1000. Default: 0	
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: - Data. - HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A
ReleaseDataFill	String to be filled in the payload of resource release notification packets.	Data structure	Members include: - Data. - HexFlag.	Both Data and HexFlag must be specified.
Data	Payload fill string.	N/A	String. Length: 1 to 200 characters	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A

NQA/FtpTemplates

This table contains information about FTP templates.

XML structure

```

<NQA>
  <FtpTemplates>
    <FtpTemplate>
      <Name></Name>
      <Operation></Operation>
      <UserName></UserName>
      <Password></Password>
      <FileName></FileName>
      <Mode></Mode>
    </FtpTemplate>
  </FtpTemplates>
</NQA>

```

```

    </FtpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	FtpTemplates
Table type	Multi-instance table
Row name	FtpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Operation	FTP operation type.	N/A	Enumeration: 1—Get operation. 2—Put operation.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 32 characters.	N/A
FileName	Name of the file to be transferred.	N/A	String. Length: 1 to 200 characters.	N/A
Mode	Data transmission mode.	N/A	Enumeration: 0—Active mode. 1—Passive mode.	N/A

NQA/SnmpTemplates

This table contains information about SNMP templates.

XML structure

```

<NQA>
  <SnmpTemplates>
    <SnmpTemplate>
      <Name></Name>
      <Community></Community>
    </SnmpTemplate>
  </SnmpTemplates>
</NQA>

```



```

    </SnmpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SnmpTemplates
Table type	Multi-instance table
Row name	SnmpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	N/A

NQA/DnsTemplates

This table contains information about DNS templates.

XML structure

```

<NQA>
  <DnsTemplates>
    <DnsTemplate>
      <Name></Name>
      <ResolveTarget></ResolveTarget>
      <ResolveType></ResolveType>
      <ExpectIP></ExpectIP>
      <OutIf></OutIf>
    </DnsTemplate>
  </DnsTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA

Table name	DnsTemplates
Table type	Multi-instance table
Row name	DnsTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ResolveTarget	Domain name that needs to be translated.	N/A	String. Length: 1 to 255 characters.	N/A
ResolveType	Domain name resolution type.	N/A	Enumeration: 1—Type A query. 28—Type AAAA query.	N/A
ExpectIP	IPv4 or IPv6 address that is expected to be returned.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/HttpTemplates

This table contains information about HTTP and HTTPS templates.

XML structure

```

<NQA>
  <HttpTemplates>
    <HttpTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Operation></Operation>
      <Version></Version>
      <RawContent></RawContent>
      <ExpectStatus></ExpectStatus>
      <ExpectData>
        <Data></Data>
      </ExpectData>
    </HttpTemplate>
  </HttpTemplates>
</NQA>

```

```

        <Offset></Offset>
    </ExpectData>
    <SslClientPolicy></SslClientPolicy>
</HttpTemplate>
</HttpTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	HttpTemplates
Table type	Multi-instance table
Row name	HttpTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 32 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 32 characters.	N/A
Operation	Operation type.	N/A	Enumeration: 1—Get operation. 2—Post operation. 3—Raw Operation.	N/A
Version	Version	N/A	Enumeration: 0—Version1.0. 1—Version1.1.	N/A
RawContent	Raw request content.	N/A	String. Length: 1 to 1023 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset.	Both Data and Offset must be specified.
Data	Expected	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	response string.		Length: 1 to 200 characters	
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
SslClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	The HTTP operation does not support this column. By default, no SSL client policy is specified.

NQA/ImapTemplates

This table contains information about IMAP templates.

XML structure

```

<NQA>
  <ImapTemplates>
    <ImapTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Mailbox></Mailbox>
    </ImapTemplate>
  </ImapTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	ImapTemplates
Table type	Multi-instance table
Row name	ImapTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name.		Length: 1 to 32 characters.	
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 40 characters.	N/A
Mailbox	Mailbox name.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/Pop3Templates

This table contains information about POP3 templates.

XML structure

```

<NQA>
  <Pop3Templates>
    <Pop3Template>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
    </Pop3Template>
  </Pop3Templates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Pop3Templates
Table type	Multi-instance table
Row name	Pop3Template
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 40 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	Login password.	N/A	String. Length: 1 to 40 characters.	N/A

NQA/RadiusTemplates

This table contains information about RADIUS templates.

XML structure

```

<NQA>
  <RadiusTemplates>
    <RadiusTemplate>
      <Name></Name>
      <UserName></UserName>
      <Password></Password>
      <Key></Key>
    </RadiusTemplate>
  </RadiusTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	RadiusTemplates
Table type	Multi-instance table
Row name	RadiusTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Login username.	N/A	String. Length: 1 to 253 characters.	N/A
Password	Login password.	N/A	String. Length: 1 to 64 characters.	N/A
Key	Shared key.	N/A	String. Length: 1 to 64 characters.	N/A

NQA/RtspTemplates

This table contains information about RTSP templates.

XML structure

```
<NQA>
  <RtspTemplates>
    <RtspTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <RequestMethod></RequestMethod>
    </RtspTemplate>
  </RtspTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	RtspTemplates
Table type	Multi-instance table
Row name	RtspTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
RequestMethod	Request method.	N/A	Enumeration: 1—Options method (default). 2—Describe method.	N/A

NQA/SipTemplates

This table contains information about SIP templates.

XML structure

```
<NQA>
  <SipTemplates>
    <SipTemplate>
      <Name></Name>
      <ExpectStatus></ExpectStatus>
      <TransProtocol></TransProtocol>
    </SipTemplate>
  </SipTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	SipTemplates
Table type	Multi-instance table
Row name	SipTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectStatus	List of expected status codes.	N/A	Numeric string. It is a comma-separated list of status items. Length: 1 to 4000 characters.	N/A
TransProtocol	Transport layer protocol.	N/A	Enumeration: 6—TCP. 17—UDP.	N/A

NQA/SslTemplates

This table contains information about SSL templates.

XML structure

```
<NQA>
  <SslTemplates>
    <SslTemplate>
```



```

    <Name></Name>
    <ClientPolicy></ClientPolicy>
  </SslTemplate>
</SslTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SslTemplates
Table type	Multi-instance table
Row name	SslTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ClientPolicy	SSL client policy	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NQA/SnmpDcaTemplates

This table contains information about SNMP-DCA templates.

Reading of and modification to the table must follow the order of the column in the table.

XML structure

```

<NQA>
  <SnmpDcaTemplates>
    <SnmpDcaTemplate>
      <Name></Name>
      <Community></Community>
      <Version></Version>
      <AgentType></AgentType>
      <CPU>
        <Threshold></Threshold>
        <Weight></Weight>
      </CPU>
      <Memory>
        <Threshold></Threshold>

```

```

        <Weight></Weight>
    </Memory>
    <Disk>
        <Threshold></Threshold>
        <Weight></Weight>
    </Disk>
    <OID>
        <OidString></OidString>
        <Threshold></Threshold>
        <Weight></Weight>
    </OID>
</SnmpDcaTemplate>
</SnmpDcaTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	SnmpdcaTemplates
Table type	Multi-instance table
Row name	SnmpdcaTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Community	SNMP community name.	N/A	String. Length: 1 to 32 characters.	N/A
Version	SNMP version.	N/A	Enumeration: 1—SNMPv1. 2—SNMPv2c.	N/A
AgentType	SNMP agent type.	N/A	Enumeration: 0—Net-Snmp. 1—Windows. 2—UserDefined.	N/A
CPU	CPU usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified.
Threshold	CPU usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Weight	CPU usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Memory	Memory usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified.
Threshold	Memory usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Memory usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Disk	Disk usage information.	Data structure	Members include: - Threshold. - Weight.	Both Threshold and Weight must be specified.
Threshold	Disk usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Disk usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
OID	OID information of the MIB object whose statistics the SNMP DCA operation collects.	Data structure	Members include: - OIDString. - Threshold. - Weight.	This column can appear at most 8 times in this row. When the get, get-bulk, get-config, or get-bulk-config operation is issued, the OID column cannot repeat. All the members must be specified.
OIDString	MIB subtree by its root node's OID.	N/A	Dotted numeric string. Length: 1 to 255 characters	Example for OID, 1.3.6.1.4.1.2021.11.11.0.
Threshold	Threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	Weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

NQA/WapTemplates

This table contains information about WAP templates.

XML structure

```

<NQA>
  <WapTemplates>
    <WapTemplate>
      <Name></Name>
      <ExpectData>

```

```

    <Data></Data>
    <Offset></Offset>
    <HexFlag></HexFlag>
  </ExpectData>
</WapTemplate>
</WapTemplates>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	WapTemplates
Table type	Multi-instance table
Row name	WapTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ExpectData	Data expected in responses to determine a successful operation.	Data structure	Members include: - Data. - Offset. - HexFlag.	Both Data and Offset must be specified.
Data	Expected response string.	N/A	String. Length: 1 to 200 characters	N/A
Offset	Offset in bytes after which the client starts to search for the expected string.	N/A	Unsigned integer. Value range: 0 to 1000.	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: - true—The data is a hexadecimal string. - false—The data is a general string.	N/A

NQA/TcpHalfOpenTemplates

This table contains information about TCP half-open templates.

XML structure

```
<NQA>
  <TcpHalfOpenTemplates>
    <TcpHalfOpenTemplate>
      <Name></Name>
      <PortDetectEnable></PortDetectEnable>
      <OutIf></OutIf>
    </TcpHalfOpenTemplate>
  </TcpHalfOpenTemplates>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	TcpHalfOpenTemplates
Table type	Multi-instance table
Row name	TcpHalfOpenTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Template name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: - true—Port detection mode is enabled. - false—Port detection mode is disabled.	N/A
OutIf	Output interface including the interface type and number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/Histories

This table contains information about the history records of NQA operations.

XML structure

```
<NQA>
  <Histories>
    <History>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <HistoryRecords>
        <Index></Index>
        <TTL></TTL>
        <Response></Response>
        <HopIP></HopIP>
        <Status></Status>
        <Time></Time>
      </HistoryRecords>
    </History>
  </Histories>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	Histories
Table type	Multi-instance table
Row name	History
Restrictions	This table is not available for frame loss, ICMP jitter, latency, path jitter, throughput, UDP jitter, or voice operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
HistoryRecords	N/A	Data structure	Members include: • Index. • TTL. • Response. • HopIP. • Status. • Time.	This column can appear at most 50 times in this row. The most recent operation result is displayed first.

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	History record ID.	N/A	Unsigned integer. Value range: 1 to 4294967295.	The history records in one UDP tracer operation have the same ID.
TTL	TTL value in the probe packet.	N/A	Unsigned integer. Value range: 1 to 255.	This column is available only for the UDP tracer operation.
Response	Round-trip time for the probe packets in the operation, in milliseconds.	N/A	Unsigned integer.	N/A
HopIP	IP address of the node that sent the reply packet.	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column is available only for the UDP tracer operation.
Status	Operation result status.	N/A	Enumeration: 1—Succeeded. 2—Unknown error. 3—Internal error. 4—Timeout.	N/A
Time	Time when the operation was completed.	N/A	DateTime.	Example: 2015-09-09T14:23:24.500.

NQA/Entries

This table contains information about NQA entries.

XML structure

```

<NQA>
  <Entries>
    <Entry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <Type></Type>
      <Description></Description>
      <DstIP></DstIP>
      <DstPort></DstPort>
      <Frequency></Frequency>
      <HistoryEnable></HistoryEnable>
      <HistoryHoldTime></HistoryHoldTime>
      <HistoryNumber></HistoryNumber>
      <NextHop></NextHop>
      <ProbeCount></ProbeCount>
    
```

```

    <ProbeTimeout></ProbeTimeout>
    <BypassRouteEnable></BypassRouteEnable>
    <SrcIP></SrcIP>
    <SrcPort></SrcPort>
    <StatHoldTime></StatHoldTime>
    <StatInterval></StatInterval>
    <StatMaxGroup></StatMaxGroup>
    <TTL></TTL>
    <ToS></ToS>
    <VRF></VRF>
    <URL></URL>
  </Entry>
</Entries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Entries
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: 0—ICMP-echo 1—UDP-echo 2—TCP 3—DLSw 4—FTP 5—DHCP 6—SNMP 7—DNS 8—HTTP	Type ICMP-echo, ICMP-jitter and UDP-jitter are supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 9—UDP-jitter • 10—VOICE • 11—Path-jitter • 12—UDP-tracert • 13—ARP • 14—IMAP • 15—POP3 • 16—Radius • 17—RTSP • 18—SIP • 19—SMTP • 20—SSL • 21—HTTPS • 22—TCP Half-open • 23—Throughput • 24—Latency • 25—Frame-Loss • 26—ICMP-jitter • 27—SNMP-DCA • 28—WAP	
Description	Entry description	N/A	String, case-sensitive. Length: 1 to 200 characters.	N/A
DstIP	Destination IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	This column and the URL column will not be available simultaneously. The FTP, HTTP, HTTPS and RTSP types do not support this column.
DstPort	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	This column and the URL column will not be available simultaneously. The types of ICMP-echo, ICMP-Jitter, ARP, FTP, HTTP, HTTPS and RTSP do not support this column.
Frequency	Probe interval in milliseconds	N/A	Unsigned integer. Value range: 0 to 604800000.	N/A
HistoryEnable	Whether to enable the saving of history records	N/A	EnableState: • enable—Enable the saving of history records. • disable—Disable the saving of history records.	Type ICMP-echo, DHCP, DLSw, DNS, FTP, HTTP, SNMP, TCP, UDP-echo, and UDP-tracert are

Column name	Column description	Column type	Data type and restrictions	Remarks
				supported.
HistoryHoldTime	History records lifetime in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	N/A
HistoryNumber	Maximum number of history records that can be saved	N/A	Unsigned integer. Value range: 0 to 50.	N/A
NextHop	Next hop IPv4 or IPv6 address	N/A	String. Length: 1 to 46 characters.	Only the type ICMP-echo support this column. IPv4 example: 1.1.1.1. IPv6 example: 1::1:1.
ProbeCount	Probe times per operation	N/A	Unsigned integer. Value range: 1 to 15.	N/A
ProbeTimeout	Probe timeout time in milliseconds	N/A	Unsigned integer.	N/A
BypassRouteEnable	Whether to enable the routing table bypass feature to test the connectivity to the direct destination	N/A	EnableState: - enable—Enable the routing table bypass feature. - disable—Disable the routing table bypass feature.	N/A
SrcIP	Source IPv4 or IPv6 address for the probe packets	N/A	String, dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
SrcPort	Source port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	Type ICMP-echo, DHCP, DLSw, DNS, ICMP-jitter, Path-jitter, TCP, ARP, FTP, HTTP, HTTPS and RTSP do not support this column.
StatHoldTime	Statistics groups hold time in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	N/A
StatInterval	Statistics collection interval in minutes	N/A	Unsigned integer. Value range: 1 to 35791394.	N/A
StatMaxGroup	Maximum number of statistics groups	N/A	Unsigned integer. Value range: 0 to 100.	N/A
TTL	TTL for probe	N/A	Unsigned integer.	The type ARP does

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		Value range: 1 to 255. Default: 20.	not support this column.
ToS	ToS value in the IP packet header of probe packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The type ARP does not support this column.
VRF	VRF instance where the operation is performed	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
URL	URL of the destination server	N/A	String. Length: 1 to 255 characters.	This column and the DstIP, DstPort column will not be available simultaneity. Only the types of FTP, HTTP, HTTPS and RTSP support this column.

NQA/IcmpEchoEntries

This table contains information about ICMP-Echo entries.

XML structure

```

<NQA>
  <IcmpEchoEntries>
    <IcmpEchoEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <DataFill></DataFill>
      <DataSize></DataSize>
      <SrcIf></SrcIf>
      <OutIf></OutIf>
    </IcmpEchoEntry>
  </IcmpEchoEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpEchoEntries
Table type	Multi-instance table

Row name	IcmpEchoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-insensitive. Length: 1 to 200 characters.	The default payload fill string will not be available.
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 20 to 65507.	N/A
SrcIf	Full name of a source interface, including the interface type and number	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
OutIf	Full name of an output interface, including the interface type and number	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A

NQA/IcmpJitterEntries

This table contains information about ICMP-jitter entries.

XML structure

```

<NQA>
  <IcmpJitterEntries>
    <IcmpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
    </IcmpJitterEntry>
  </IcmpJitterEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	IcmpJitterEntries
Table type	Multi-instance table
Row name	IcmpJitterEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000.	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000.	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000.	N/A

NQA/UdpJitterEntries

This table contains information about UDP-jitter entries.

XML structure

```
<NQA>
  <UdpJitterEntries>
    <UdpJitterEntry>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <PktInterval></PktInterval>
      <PktNumber></PktNumber>
      <PktTimeout></PktTimeout>
      <DataFill></DataFill>
      <DataSize></DataSize>
```

```

    </UdpJitterEntry>
  </UdpJitterEntries>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	UdpJitterEntries
Table type	Multi-instance table
Row name	UdpJitterEntry
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
PktInterval	Packet sending interval in the probe in milliseconds	N/A	Unsigned integer. Value range: 10 to 60000.	N/A
PktNumber	Number of packets to be sent per probe	N/A	Unsigned integer. Value range: 10 to 1000.	N/A
PktTimeout	Packet time out in milliseconds	N/A	Unsigned integer. Value range: 10 to 3600000.	N/A
DataFill	Payload fill string for probe packets	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 68 to 65507.	N/A

NQA/Schedules

This table contains information about NQA entry schedules.

XML structure

```

<NQA>

```

```

<Schedules>
  <Schedule>
    <AdminName></AdminName>
    <OperationTag></OperationTag>
    <StartTime>
      <StartNow></StartNow>
      <Time></Time>
    </StartTime>
    <Lifetime>
      <Forever></Forever>
      <Duration></Duration>
    </Lifetime>
    <Recurring></Recurring>
  </Schedule>
</Schedules>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	Schedules
Table type	Multi-instance table
Row name	Schedule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
StartTime	Start time	N/A	Members include: - StartNow - Time	Time will not be available when StartNow is true
StartNow	Start now	N/A	Boolean: - true - false	N/A
Time	Start time and date of an operation	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Lifetime	The duration of an operation	N/A	Members include:	Duration will not be available when Forever is

Column name	Column description	Column type	Data type and restrictions	Remarks
			- Forever - Duration	true or when the entry is not scheduled.
Forever	Forever	N/A	Boolean: - true - false	N/A
Duration	The duration of an operation in seconds	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
Recurring	Recurring	N/A	EnableState: - enable—Run the operation automatically at the start time and for the specified duration. - disable—The operation is performed only once at the specified date and time.	N/A

NQA/ReactionTriggerFailItems

This table contains information about reaction trigger fail items.

XML structure

```

<NQA>
  <ReactionTriggerFailItems>
    <ReactionTriggerFailItem>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <Occurrences></Occurrences>
    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	ReactionTriggerFailItems
Table type	Multi-instance table
Row name	ReactionTriggerFailItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
Occurrences	The maximum number of consecutive probe failures	N/A	Unsigned integer. Value range: 1 to 16.	N/A

NQA/Reactions

This table contains information about reaction items.

XML structure

```

<NQA>
  <Reactions>
    <Reaction>
      <AdminName></AdminName>
      <OperationTag></OperationTag>
      <ItemNumber></ItemNumber>
      <CheckedElement></CheckedElement>
      <ThresholdType>
        <Type></Type>
        <Occurrences></Occurrences>
      </ThresholdType>
      <ThresholdValue>
        <UpperLimit></UpperLimit>
        <LowerLimit></LowerLimit>
      </ThresholdValue>
      <ActionType></ActionType>
    </Reaction>
  </Reactions>
</NQA>

```

Table description

Item	Description
Feature name	NQA

Table name	Reactions
Table type	Multi-instance table
Row name	Reaction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdminName	Administrator name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
ItemNumber	Item number	Index	Unsigned integer. Value range: 1 to 10.	N/A
CheckedElement	Monitored element	N/A	Enumeration: 1—probe-duration 2—probe-fail 3—rtt 4—packet-loss 5—jitter-sd 6—jitter-ds 7—icpif 8—mos 9—owd-sd 10—owd-ds	N/A
ThresholdType	Threshold type	Data structure	Member include: - Type - Occurrences	N/A
Type	Threshold violation type	N/A	Enumeration: 1—average 2—consecutive 3—accumulate	N/A
Occurrences	Maximum number of threshold violations	N/A	Unsigned integer. Value range: 1 to 15000.	N/A
ThresholdValue	Value range of threshold	Data structure	Member include: - UpperLimit - LowerLimit	N/A
UpperLimit	Upper limit of threshold	N/A	Unsigned integer.	N/A
LowerLimit	Lower limit of threshold	N/A	Unsigned integer.	N/A
ActionType	Action to be triggered	N/A	Enumeration: 0—none	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—trap-only • 2—trigger-only	

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 - NQAS/Servers.....1
 - XML structure1
 - Table description.....2
 - Columns.....2

NQAS

NQAS/ServerStatus

This table contains information about NQA server enabling status.

XML structure

```
<NQAS>
  <ServerStatus>
    <Enable></Enable>
  </ServerStatus>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	ServerStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA server	N/A	Enabling status: enable—NQA server is enabled. disable—NQA server is disabled.	By default, the NQA server is disabled.

NQAS/Servers

This table contains information about NQA servers. You cannot edit a server after it is configured.

XML structure

```
<NQAS>
  <Servers>
```

```

<Server>
  <Type></Type>
  <IPAddr></IPAddr>
  <Port></Port>
  <VRF></VRF>
  <ToS></ToS>
</Server>
</Servers>
</NQAS>

```

Table description

Item	Description
Feature name	NQAS
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Service type	Index	Enumeration: 0—TCP-connect 1—UDP-echo	N/A
IPAddr	IPv4 or IPv6 address for the listening service	Index	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Port	Port number for the listening service	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance where the service listens on	Index	String, case-sensitive. Length: 0 to 31 characters.	If it is not specified, the NQA server listens on the public network.
ToS	ToS value in the IP header for reply packets	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	N/A

Contents

- NQAS1
 - NQAS/ServerStatus.....1
 - XML structure1
 - Table description.....1
 - Columns.....1
 - NQAS/Servers.....1
 - XML structure1
 - Table description.....2
 - Columns.....2

NQAS

NQAS/ServerStatus

This table contains information about NQA server enabling status.

XML structure

```
<NQAS>
  <ServerStatus>
    <Enable></Enable>
  </ServerStatus>
</NQAS>
```

Table description

Item	Description
Feature name	NQAS
Table name	ServerStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the NQA server.	N/A	Enabling status: • enable—NQA server is enabled. • disable—NQA server is disabled.	N/A

NQAS/Servers

This table contains information about NQA servers.

XML structure

```
<NQAS>
  <Servers>
    <Server>
```



```

<Type></Type>
<IPAddr></IPAddr>
<Port></Port>
<VRF></VRF>
<ToS></ToS>
</Server>
</Servers>
</NQAS>

```

Table description

Item	Description
Feature name	NQAS
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Service type	Index	Enumeration: 0—TCP-connect 1—UDP-echo	N/A
IPAddr	IPv4 or IPv6 address for the listening service	Index	String. Dotted decimal notation. Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	N/A
Port	Port number for the listening service	Index	Unsigned integer. Value range: 1 to 65535.	N/A
VRF	VRF instance where the server listens on	Index	String, case-sensitive. Length: 0 to 31 characters.	If the returned value is empty, the NQA server listens on the public network.
ToS	ToS value in the IP header for reply packets	N/A	Unsigned integer. Value range: 0 to 255.	N/A

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NTOP

NTOP/ExportTrafficTop

This table is used to export the TrafficTop's statistics to PDF.

XML structure

```
<NTOP>
  <ExportTrafficTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <TrafficType></TrafficType>
      <FileName></FileName>
      <TableName></TableName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <MatchFilter>
        <SrcIP></SrcIP>
        <Application></Application>
        <UAppSubCategory></UAppSubCategory>
      </MatchFilter>
    </Top>
  </ExportTrafficTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficTop
Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Enumeration: 1—SrcIP 4—Application 8—User 64—Context	
ChartType	Type of the chart	N/A	Enumeration: 1—Pie chart 2—Bar chart	N/A
TrafficType	Type of the traffic	N/A	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Query ranking	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: - SrcIP - Application - UAppSubCategory	Only one column at a time.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportTrafficTopChart

This table is used to export the TrafficTopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportTrafficTopChart>
    <Chart>
      <GroupType></GroupType>
      <TrafficType></TrafficType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <MatchValue>
        <MatchType></MatchType>
        <MatchValue></MatchValue>
      </MatchValue>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportTrafficTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: • 1—SrcIP • 4—Application • 8—User • 64—Context • 256—Appcategory • 512—BandWidth	N/A
TrafficType	Type of the traffic	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0—Total bytes 1—Bytes 2—Reply bytes	
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: - SrcIP - Application - UAppSubCategory	Only one column at a time.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportThreatTop

This table is used to export the ThreatTop's statistics to PDF.

XML structure

```

<NTOP>
  <ExportThreatTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <TableName></TableName>
      <FileName></FileName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Top>
  </ExportThreatTop>
</NTOP>

```

```

    </TimeFilter>
    <MatchFilter>
      <SrcIP></SrcIP>
      <DestIP></DestIP>
      <ThreatType></ThreatType>
      <ThreatID></ThreatID>
    </MatchFilter>
  </Top>
</ExportThreatTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportThreatTop
Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: 1—ThreatType 2—Application 4—Attacker 8—AttackerTarget 16—ThreatID 32—User	N/A
ChartType	Type of the chart	N/A	Enumeration: 1—Pie chart 2—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Query ranking	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic	N/A	DateTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time		Format: YYYY-MM-DDTHH:MM:SS	
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: - SrcIP - DestIP - ThreatType - ThreatID	ThreatType and ThreatID must be issued simultaneously.
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
DestIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer	N/A

NTOP/ExportThreatTopChart

This table is used to get the ThreatTopChart's statistics to PDF.

XML structure

```

<NTOP>
  <ExportThreatTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <ThreatType></ThreatType>
      <GroupValueList>
        <GroupValue></GroupValue>
        <ThreatID></ThreatID>
      </GroupValueList>
      <MatchValue>
        <MatchType></MatchType>
        <MatchValue></MatchValue>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
      </MatchValue>
      <TimeFilter>
        <StartTime></StartTime>

```



```

        <EndTime></EndTime>
    </TimeFilter>
</Chart>
</ExportThreatTopChart>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportThreatTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration: 1—ThreatType 2—Application 4—Attacker 8—AttackerTarget 16—ThreatID 32—User	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	If GroupType is 16, ThreatType must not be NULL.
GroupValueList	Trend value list	Data structure	Members include: - GroupValue - ThreatType - ThreatID	If GroupType is 16, ThreatType must not be NULL.
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValueList.
ThreatID	ThreatID	N/A	Unsigned integer	Contains up to 5 ThreatID in GroupValueList.
TimeFilter	Query time range	Data structure	Members include: StartTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			EndTime	
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Filter condition	Data structure	Members include: - SrcIP - DestIP - ThreatType - ThreatID	ThreatType and ThreatID must be issued simultaneously.
MatchType	Filter type	N/A	Unsigned integer	N/A
MatchValue	Filter value	N/A	String, case insensitive Length: 1 to 63 characters	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer	N/A

NTOP/ExportURLTop

This table is used to export the URLTop's statistics to PDF.

XML structure

```

<NTOP>
  <ExportURLTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <FileName></FileName>
      <TableName></TableName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
    </Top>
  </ExportURLTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportUrlTop
Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: 1—Urlcategory 2—Website 4—User 8—SrcIP 16—DstIP	N/A
ChartType	Type of the chart	N/A	Enumeration: 1—Pie chart 2—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Query ranking	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportURLTopChart

This table is used to get the URLTopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportURLTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportURLTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportUrlTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration: 1—Urlcategory 2—Website 4—User 8—SrcIP 16—DstIP	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValueList	Trend value list	Data structure	Members include: GroupValue	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValueList.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportFileTop

This table is used to export the FileTop's statistics to PDF.

XML structure

```

<NTOP>
  <ExportFileTop>
    <Top>
      <GroupType></GroupType>
      <ChartType></ChartType>
      <FileName></FileName>
      <TableName></TableName>
      <TopCount></TopCount>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
    </Top>
  </ExportFileTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportFileTop
Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
GroupType	Rank type	Index	Unsigned integer Enumeration: 1—FileFilter	N/A
ChartType	Type of the chart	N/A	Enumeration: 1—Pie chart 2—Bar chart	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TopCount	Query ranking	N/A	Unsigned integer Value range: 0 to 1000.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportFileTopChart

This table is used to get the FileTopChart's statistics to PDF.

XML structure

```
<NTOP>
  <ExportFileTopChart>
    <Chart>
      <GroupType></GroupType>
      <FileName></FileName>
      <TableName></TableName>
      <GroupValueList>
        <GroupValue></GroupValue>
      </GroupValueList>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
```

```
</ExportFileTopChart>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportFileTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	Trend type	Index	Unsigned integer Enumeration: • 1—FileFilter	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A
TableName	Name of the table	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValueList	Trend value list	Data structure	Members include: • GroupValue	N/A
GroupValue	Trend value	N/A	String, case insensitive Length: 1 to 63 characters	Contains up to 5 GroupValue in GroupValue List.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ExportTrafficHistogram

This table is used to get the traffic histogram information to PDF.

XML structure

```
<NTOP>
  <ExportTrafficHistogram>
    <Chart>
      <ContextID></ContextID>
      <AnalyType></AnalyType>
      <TrafficType></TrafficType>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <FileName></FileName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportTrafficHistogram>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficHistogram
Table Type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyType	Analysis type	Index	Unsigned integer 0—Traffic flow 1—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—bytes 2—Reply bytes	N/A
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 255 characters.	
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportTrafficDistribution

This table is used to get the traffic distribution statistics to PDF.

XML structure

```

<NTOP>
  <ExportTrafficDistribution>
    <Chart>
      <ContextID></ContextID>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <TrafficType></TrafficType>
      <TimeRange></TimeRange>
      <FileName></FileName>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </ExportTrafficDistribution>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportTrafficDistribution
Table Type	Multi-instance table

Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 2—Application 4—User 8—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
TimeRange	Time range	Index	Enumeration: 0—Hour 1—Day 2—Week	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/ExportReport

This table is used to get the NTOP report to PDF.

XML structure

```
<NTOP>
  <ExportReport>
    <Chart>
```

```

<ReportType></ReportType>
<ContextID></ContextID>
<ReportCustomization></ReportCustomization>
<TimeFilter>
  <StartTime></StartTime>
  <EndTime><EndTime>
  <CompStartTime></CompStartTime>
  <CompEndTime><CompEndTime>
</TimeFilter>
<FileName></FileName>
</Chart>
</ExportReport>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ExportReport
Table Type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report	N/A
ReportCustomization	Report customization	N/A	Unsigned integer: 1—Chapter 1 2—Chapter 2 4—Chapter 3 8—Chapter 4 ... 2³¹—Chapter 32	Report output selected chapter. By default, all chapters are selected. The chapter name is taken from NETCONF table:NTOP/ReportChapter.
TimeFilter	Query time range	Data structure	Members include: StartTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- EndTime - CompStartTime - CompEndTime	
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
CompStartTime	Comparison Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
CompEndTime	Comparison End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextID	ContextID	N/A	Unsigned integer	N/A
FileName	Name of the PDF	N/A	String, case insensitive Length: 1 to 63 characters	N/A

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NTOP/LogAggregations

This table contains log aggregation information.

XML structure

```
<NTOP>
  <LogAggregations>
    <LogAggregation>
      <LogType></LogType>
      <Enabled></Enabled>
      <Time></Time>
    </LogAggregation>
  </LogAggregations>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	LogAggregations
Table type	Multi-instance table
Row name	LogAggregation
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: 1—ThreatLog 2—TrafficLog 3—URLLog 4—FFilterLog	N/A
Enabled	Whether aggregation is enabled or not	N/A	Boolean: - true - false	Enabled
Time	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60.	Default is 60 seconds.

NTOP/PersistCfg

This table is used to set the persistence configuration.

XML structure

```
<NTOP>
  <PersistCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <AutoDeleteEnable></AutoDeleteEnable>
      <LimitTime></LimitTime>
      <LogLimit></LogLimit>
      <TrendLimit></TrendLimit>
      <DBSoftware></DBSoftware>
    </DBCfg>
  </PersistCfg>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	PersistCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	Index	Enumeration: • 1—Global service • 2—Audit service • 3—Traffic service • 4—Threat service • 5—URLFilter service • 6—Filefilter service	N/A
AutoDeleteEnable	Whether AutoDelete is enabled or not	N/A	Boolean: • true • false	N/A
LimitTime	Data retention days	N/A	Unsigned integer	Default is 30 days.

Column name	Column description	Column type	Data type and restrictions	Remarks
LogLimit	Log records limit	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
TrendLimit	Trend records limit	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
DBSoftware	Database software of this service	N/A	Enumeration: 1—Sqlite 2—Fastbit	N/A

NTOP/ReportRss

This table is used to set the report subscription configuration.

XML structure

```

<NTOP>
  <ReportRss>
    <Rss>
      <ReportType></ReportType>
      <MailId></ MailId >
      <MailAddr></MailAddr>
    </Rss>
  </ReportRss>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ReportRss
Table type	Multi-instance table
Row name	Rss
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—Intelligent report 4—Integrated report	
MailId	Mail Id	Index	Unsigned integer. Value range: 1 to $2^{32}-1$	N/A
MailAddr	Rss mail address	N/A	String, case insensitive Length: 1 to 127 characters	N/A.

NTOP/PersistDiskCfg

This table is used to set the persistence disk configuration.

XML structure

```

<NTOP>
  <PersistDiskCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <ServiceDiskLimit></ServiceDiskLimit>
      <ServiceAlarmLimit></ServiceAlarmLimit>
    </DBCfg>
  </PersistDiskCfg>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	PersistDiskCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceAlarm Limit	Alarm limit percent.	N/A	Unsigned integer. Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
ServiceType	Service type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Global service • 2—Audit service • 3—Traffic service • 4—Threat service • 5—URLFilter service • 6—Filefilter service	
ServiceDiskLimit	Service disk limit percent.	N/A	Unsigned integer. Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.。

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NTOP

NTOP/TrafficLog

This table contains Traffic log information. When a session ends, a traffic log will be stored locally. This table contains these logs. If there is no hard-disk on device, only 10,000 entries can be stored, and new logs will overwrite the oldest.

XML structure

```
<NTOP>
  <TrafficLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <ContextName></ContextName>
      <Protocol></Protocol>
      <Application></Application>
      <SecurityPolicy></SecurityPolicy>
      <SrcZoneName></SrcZoneName>
      <SrcRegion></SrcRegion>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <NATSrcIP></NATSrcIP>
      <NATSrcPort></NATSrcPort>
      <User></User>
      <DestZoneName></DestZoneName>
      <DestRegion></DestRegion>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <NATDstIP></NATDstIP>
      <NATDstPort></NATDstPort>
      <TrafficPolicy></TrafficPolicy>
      <Bytes></Bytes>
      <ReplyBytes></ReplyBytes>
      <Pkts></Pkts>
      <ReplyPkts></ReplyPkts>
      <SrcInterface></SrcInterface>
      <SrcVrfIndex></SrcVrfIndex>
      <DstInterface></DstInterface>
      <UAppSubCategory></UAppSubCategory>
      <SessionCount></SessionCount>
    </Log>
  </TrafficLog>
</NTOP>
```

```

    </TrafficLog>
  </NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficLog
Table type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the TrafficLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
EndTime	End time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
StartTime	Start time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SecurityPolicy	Security policy	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
NATSrcIP	NAT source IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATSrcPort	NAT source port	N/A	Unsigned integer	N/A
User	Username	N/A	String, case insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 127 characters	
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
NATDstIP	NAT destination IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATDstPort	NAT destination port	N/A	Unsigned integer	N/A
Bytes	Bytes	N/A	Unsigned integer	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer	N/A
Pkts	Packets	N/A	Unsigned integer	N/A
ReplyPkts	Reply packets	N/A	Unsigned integer	N/A
SrcInterface	Source interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
DstInterface	Destination interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

NTOP/TrafficTop

This table is used to get the top information of TrafficLog table.

The attributes in GroupValue must match the GroupType. For example, if the group-type is SrcIP, the value in GroupValue should be:

```
<SrcIP>1.2.3.4</SrcIP>
```

Other columns in GroupValue must not exist. The ConnCounter is the number of sessions that include this IP as an initiator and BytesCounter is the number of bytes sent and received by this IP. TopNo means the BytesCounter's order in all BytesCounter values.

XML structure

```
<NTOP>
  <TrafficTop>
    <Top>
```

```

<TopNo></TopNo>
<GroupType></GroupType>
<TrafficType></TrafficType>
<UserID></UserID>
<TimeFilter>
  <StartTime></StartTime>
  <EndTime><EndTime>
</TimeFilter>
<MatchFilter>
  <SrcIP></SrcIP>
  <DstIP></DstIP>
  <Application></Application>
  <User></User>
  <UAppSubCategory></UAppSubCategory>
</MatchFilter>
<GroupValue>
  <SrcIP></SrcIP>
  <DstIP></DstIP>
  <Applicatoin></ Applicatoin >
  <User></User>
  <Bandwidth></Bandwidth>
  <SrcRegion></SrcRegion>
  <DstRegion></DstRegion>
  <ContextName></ContextName>
  <UAppSubCategory></UAppSubCategory>
</GroupValue>
<GroupCounters>
  <BytesCounter></BytesCounter>
  <TotalBytes ></TotalBytes >
  <ReplyBytes></ReplyBytes>
  <ConnCounter></ConnCounter>
</GroupCounters>
<BytesTotal></BytesTotal>
<ConnTotal></ConnTotal>
</Top>
</TrafficTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficTop
Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to 2 ³² -1	N/A
GroupType	Ranking type	Index	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to rank the statistics by application, set the GroupType value to 4.
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to 2 ³² -1	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime.	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - SrcIP - DstIP - Application - UAppSubCategory.. - User	N/A
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValue	Group value	Data structure	Members include: SrcIP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• DstIP • Application • UAppSubCategory. • User • BandWidth • SrcRegion • DestRegion • ContextName.	
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
GroupCounters	Group counters	Data structure	Members include: • Bytes • TotalBytes • ReplyBytes • ConnCounter.	N/A
BytesCounter	Bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
TotalBytes	Total bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ReplyBytes	Reply bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ConnCounter	Session count within the	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	statistical time of the GroupValue.			
BytesTotal	All bytes within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	If TrafficType is 1, the BytesTotal is the total number of ReplyBytes. If TrafficType is 2, the BytesTotal is the total number of Bytes. Otherwise BytesTotal is the total number of TotalBytes.
ConnTotal	All session count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

NTOP/TrafficTopChart

This table is used to get the TrafficLog's byte number distribution every hour.

XML structure

```

<NTOP>
  <TrafficTopChart>
    <Chart>
      <TrafficType></TrafficType>
      <GroupValue>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Application></Application>
        <UAppSubCategory></UAppSubCategory>
        <User></User>
        <ContextName></ContextName>
        <SrcRegion></SrcRegion>
        <DstRegion></DstRegion>
        <Bandwidth></Bandwidth>
      </GroupValue>
      <GroupCounters>
        <Time></Time>
        <Bytes></Bytes>
        <ReplyBytes></ReplyBytes>
        <TotalBytes></TotalBytes>
      </GroupCounters>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Chart>
  </TrafficTopChart>

```

</NTOP>

Table description

Item	Description
Feature name	NTOP
Table name	TrafficTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
GroupValue	Group value	Data structure	Members include: - SrcIP - DstIP - Application - AppSubCategory. - User - ContextName - Bandwidth. - SrcRegion - DestRegion	N/A
SrcIP	Source IP address of the session	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	Index	String, case insensitive Length: 1 to 15 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive Length: 1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bytes	Bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	Multiple values.
ReplyBytes	Reply bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	Multiple values.
TotalBytes	Total bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	Multiple values.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/ThreatLog

This table contains threat log information.

XML structure

```

<NTOP>
  <ThreatLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <ThreatType></ThreatType>
      <ThreatID></ThreatID>
      <ThreatName></ThreatName>
      <SrcZoneName></SrcZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestZoneName></DestZoneName>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <Application></Application>
      <Protocol></Protocol>
    </Log>
  </ThreatLog>
</NTOP>

```

```

    <Action></Action>
    <Severity></Severity>
    <RealIP></RealIP>
    <CVE></CVE>
    <BID></BID>
    <MSB></MSB>
    <Policy></Policy>
    <SrcRegion></SrcRegion>
    <DestRegion></DestRegion>
    <ContextName></ContextName>
    <SrcVrfIndex></SrcVrfIndex>
    <AttackCount></AttackCount>
    <User></User>
  </Log>
</ThreatLog>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatLog
Table type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the ThreatLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	Time of the ThreatLog	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to 2 ³² -1	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
Severity	Severity of the rule	N/A	Unsigned integer	N/A
RealIP	Real IP	N/A	String, case insensitive Length: 1 to 127 characters	N/A
CVE	CVE	N/A	String, case insensitive Length: 1 to 127 characters	N/A
BID	BID	N/A	String, case insensitive Length: 1 to 127 characters	N/A
MSB	MSB	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Policy	Name of the threat policy	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
AttackCount	Number of attacks	N/A	Unsigned integer	N/A
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A

NTOP/ThreatTop

This table contains ThreatLog Top information.

XML structure

```
<NTOP>
  <ThreatTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <MatchFilter>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <ThreatName></ThreatName>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <Application></Application>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
        <User></User>
      </MatchFilter>
      <GroupValue>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <ThreatName></ThreatName>
        <Application></Application>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <User></User>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
      </GroupValue>
      <GroupCounters>
        <ThreatCounter></ThreatCounter>
      </GroupCounters>
      <AttackTotal></AttackTotal>
    </Top>
  </ThreatTop>
</NTOP>
```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatTop

Table type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer: 1—ThreatType 2—Application 4—Attacker 8—AttackTarget 16—ThreatID 32—User	For example, to rank the statistics by attacker, set the GroupType value to 4.
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - ThreatType - ThreatID - Attacker - AttackTarget - Application - User. - SrcRegion - DestRegion	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupValue	Group value	Data structure	Members include: - ThreatType - ThreatID - ThreatName - Application - Attacker - AttackTarget - User. - SrcRegion - DestRegion	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupCounters	Group counters	Data structure	Members include: ThreatCounter.	N/A
ThreatCounter	Threat counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AttackTotal	All attack count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

NTOP/ThreatTopChart

This table contains Threat Log Top Chart information.

XML structure

```

<NTOP>
  <ThreatTopChart>
    <Chart>
      <GroupValue>
        <ThreatType></ThreatType>
        <ThreatID></ThreatID>
        <Application></Application>
        <Attacker></Attacker>
        <AttackTarget></AttackTarget>
        <SrcRegion></SrcRegion>
        <DestRegion></DestRegion>
        <User></User>
      </GroupValue>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <GroupCounters>
        <Time></Time>
        <AttackCounter></AttackCounter>
      </GroupCounters>
    </Chart>
  </ThreatTopChart>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ThreatTopChart
Table type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: - ThreatType - ThreatID - Application - Attacker - AttackTarget - SrcRegion - DestRegion - User	N/A
ThreatType	Threat type	Index	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	Index	Unsigned integer	N/A
Application	Application	Index	String , case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Dest IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounts	Statistic data	Data structure	Members include: - Time - HitCounter	When the TimeFilter is less than 1 day, the data is collected at an interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data is collected.
Time	Time of the data	N/A	DateTime.	Multiple values.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Format: YYYY-MM-DDTHH:MM:SS	
AttackCounter	Number of attacks	N/A	Unsigned integer	Multiple values.

NTOP/URLLog

This table contains URLLog information.

XML structure

```

<NTOP>
  <URLLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <URLCategory></URLCategory>
      <FilterType></FilterType>
      <URL></URL>
      <SrcZoneName></SrcZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestZoneName></DestZoneName>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <Application></Application>
      <User></User>
      <Action></Action>
      <SecurityPolicy></SecurityPolicy>
      <ContextName></ContextName>
      <SrcVrfIndex></SrcVrfIndex>
      <SrcRegion></SrcRegion>
      <DestRegion></DestRegion>
      <VistCount></VistCount>
    </Log>
  </URLLog>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	URLLog

Table Type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column Type	Data Type and restrictions	Remarks
ID	ID of the URL log	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	Time of the URLLog	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
URL	URL	N/A	String, case insensitive Length: 1 to 511 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String , case insensitive Length: 1 to 127 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
SecurityPolicy	Name of the URL policy	N/A	String, case insensitive Length: 1 to 31 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A

Column name	Column description	Column Type	Data Type and restrictions	Remarks
VistCount	Number of URL visits	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	Whether the URL logs are aggregated depends on table LogAggregations.

NTOP/URLTop

This table contains URL Log Top information.

XML structure

```

<NTOP>
  <URLTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <MatchFilter>
        <User></User>
        <URLCategory></URLCategory>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Website></Website>
      </MatchFilter>
      <GroupValue>
        <User></User>
        <URLCategory></URLCategory>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Website></Website>
      </GroupValue>
      <GroupCounters>
        <URLVistCounter></URLVistCounter>
      </GroupCounters>
      <CountTotal></CountTotal>
    </Top>
  </URLTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	URLTop
Table Type	Multi-instance table
Row name	Top
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer 1—URLCategory 2—Website 4—User 8—SrcIP 16—DstIP	For example, to rank the statistics by user, set the GroupType value to 4.
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime.	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - User - URLCategory - SrcIP - DstIP - Website.	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: - User - URLCategory - SrcIP - DstIP - Website.	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Dest IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: ThreatCounter	N/A
URLVistCounter	URL visit counter within the statistical time of the GroupValue	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
CountTotal	All attack count within the statistical time	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

NTOP/URLTopChart

This table contains URL Log Top Chart information.

XML structure

```

<NTOP>
  <URLTopChart>
    <Chart>
      <GroupValue>
        <URLCategory></URLCategory>
        <SrcIP></SrcIP>
        <DstIP></DstIP>
        <Website></Website>

```

```

        <User></User>
    </GroupValue>
    <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
    </TimeFilter>
    <GroupCounters>
        <Time></Time>
        <URLVistCounter></URLVistCounter>
    </GroupCounters>
</Chart>
</URLTopChart>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	URLTopChart
Table Type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: • URLCategory • SrcIP • DstIP • Website • User	N/A
URLCategory	URL category	Index	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	Index	String, case insensitive Length: 1 to 63 characters	N/A
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: • StartTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			EndTime	
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounters	Statistics data	Data structure	Members include: - Time - HitCounter	When the TimeFilter is less than 1 day, the data is collected at an interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data can be collected.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
URLVistCounter	Number of URL visits	N/A	Unsigned integer	Multiple values.

NTOP/FileLog

This table contains FileLog information.

XML structure

```

<NTOP>
  <FileLog>
    <Log>
      <ID></ID>
      <UserID></UserID>
      <Time></Time>
      <FileType></FileType>
      <SrcZoneName></SrcZoneName>
      <DestZoneName></DestZoneName>
      <SrcIPAddr></SrcIPAddr>
      <SrcPort></SrcPort>
      <DestIPAddr></DestIPAddr>
      <DestPort></DestPort>
      <Application></Application>
      <Action></Action>
      <ContextName></ContextName>
      <VistCount></VistCount>
    </Log>
  </FileLog>
</NTOP>

```

</FileLog>
</NTOP>

Table description

Item	Description
Feature name	NTOP
Table name	FileLog
Table Type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
Time	time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 8 characters	N/A
SrcZoneName	Name of source zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestZoneName	Name of destination zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	Data structure	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcPort	Source port	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.
DestPort	Destination port	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Action	Action of the rule.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
ContextName	Name of the context.	N/A	String, case insensitive Length: 1 to 15 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VistCount	Number of visits	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	Whether the visit logs are aggregation depends on table LogAggregations.

NTOP/FileTop

This table contains File Log Top information.

XML structure

```

<NTOP>
  <FileTop>
    <Top>
      <TopNo></TopNo>
      <GroupType></GroupType>
      <UserID></UserID>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime><EndTime>
      </TimeFilter>
      <GroupValue>
        <FileType></FileType>
      </GroupValue>
      <MatchFilter>
        <FileType></FileType>
      </MatchFilter >
      <GroupCounters>
        <HitCounter></HitCounter>
      </GroupCounters>
      <HitCounterTotal></HitCounterTotal>
    </Top>
  </FileTop>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	FileTop
Table Type	Multi-instance table
Row name	Top

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer 1—FileFilter	For example, to rank the statistics by FileType, set the GroupType value to 1.
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: FileType.	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: HitCounter	N/A
HitCounter	Hit counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
HitCounterTotal	All hit count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

NTOP/FileTopChart

This table is used to get the FileLog's byte distribution every hour or five minutes.

XML structure

```
<NTOP>
  <FileTopChart>
```

```

<Chart>
  <GroupValue>
    <FileType></FileType>
  </GroupValue>
  <TimeFilter>
    <StartTime></StartTime>
    <EndTime></EndTime>
  </TimeFilter>
  <GroupCounters>
    <Time></Time>
    <HitCounter></HitCounter>
  </GroupCounters>
</Chart>
</FileTopChart>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	FileTopChart
Table Type	Multi-instance table
Row name	Chart
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: 1—FileFilter	N/A
FileType	File type	Index	String, case insensitive Length: 1 to 8 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounters	Statistic data	Data structure	Members include: - Time - HitCounter.	When the TimeFilter is less than 1 day, the data is collected at an

Column name	Column description	Column type	Data type and restrictions	Remarks
				interval of 5 minutes. Otherwise, the interval is 1 hour. Up to one month's data can be collected.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
HitCounter	Hit count	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	Multiple values.

NTOP/LogAggregations

This table is used to get the log aggregation information.

XML structure

```

<NTOP>
  <LogAggregations>
    <LogAggregation>
      <LogType></LogType>
      <Enabled></Enabled>
      <Time></Time>
    </LogAggregation>
  </LogAggregations>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	LogAggregations
Table Type	Multi-instance table
Row name	LogAggregation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: 1—ThreatLog	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—TrafficLog 3—URLLog 4—FFilterLog	
Enabled	Whether aggregation is enabled or not	N/A	Boolean: - true - false	N/A
Time	Aggregation time in seconds	N/A	Unsigned integer Value range: 10 to 60	Default is 60 seconds.

NTOP/LogPaging

This table is used to get the log paging information.

XML structure

```

<NTOP>
  <LogPaging>
    <Log>
      <LogType></LogType>
      <UserID></UserID>
      <ID></ID>
      <PageNo></PageNo>
      <CountPerPage></CountPerPage>
      <TotalCounts></TotalCounts>
      <InputJSON></InputJSON>
      <OutputJSON></OutputJSON>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
    </Log>
  </LogPaging>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	LogPaging
Table Type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: 1—ThreatLog 2—TrafficLog 3—URLLog 4—FFilterLog	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
ID	Reserve column	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
PageNo	Page number to display	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
CountPerPage	Number of logs per page	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
TotalCounts	Log total counts	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
InputJSON	Input parameter to get log	N/A	String Length: 1 to 2048 characters.	When LogType is 1, InputJSON uses ThreatLog Filter conditions. When LogType is 2, InputJSON uses TrafficLog Filter conditions. When LogType is 3, InputJSON uses URLLog Filter conditions. When LogType is 4, InputJSON uses FFilterLog Filter conditions.
OutputJSON	Log information	N/A	String Length: 1 to 2048 characters.	When LogType is 1, OutputJSON uses ThreatLog output structure. When LogType is 2, OutputJSON uses TrafficLog output structure. When LogType is 3, OutputJSON uses URLLog output structure. When LogType is 4, OutputJSON uses FFilterLog output structure.
TimeFilter	Query time range	Data structure	Members include: StartTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			EndTime	
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

NTOP/PersistCfg

This table is used to get the persistence configuration

XML structure

```

<NTOP>
  <PersistCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <AutoDeleteEnable></AutoDeleteEnable>
      <LimitTime></LimitTime>
      <DiskEnable></DiskEnable>
      <LogLimit></LogLimit>
      <TrendLimit></TrendLimit>
      <DBSoftware></DBSoftware>
    </DBCfg>
  </PersistCfg>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	PersistCfg
Table Type	Multi-instance table
Row name	DBCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Global service 2—Audit service 3—Traffic service 4—Threat service 5—URLFilter service 6—Filefilter service	
AutoDeleteEnable	Whether delete files on disk automatically or not	N/A	Boolean: - true - false	N/A
LimitTime	Maximum number of days that the data can be stored	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	Multiple values.
DiskEnable	Whether the device mounts the hard disk	N/A	Boolean: - true - false	N/A
LogLimit	Log records limit	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
TrendLimit	Trend Records limit	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
DBSoftware	Database software of this service	N/A	Enumeration: 1—Sqlite 2—Fastbit	N/A

NTOP/TrafficHistogram

This table is used to get the traffic flow histogram information.

XML structure

```

<NTOP>
  <TrafficHistogram>
    <Histogram>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <ContextID></ContextID>
      <AnalyType></AnalyType>
      <TrafficType></TrafficType>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <AnalyVlaues>
        <Percent></Percent>
        <AnalyValue></AnalyValue>
      </AnalyVlaues>
    </Histogram>
  </TrafficHistogram>
</NTOP>

```

```

    </Histogram>
  </TrafficHistogram>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficHistogram
Table Type	Multi-instance table
Row name	Histogram
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyType	Analysis type	Index	Unsigned integer 0—Traffic flow 1—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—bytes 2—Reply bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
AnalyValues	Analysis value list	Data structure	Members include: - Percent - AnalyValue	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Percent	Percent of an analysis value	N/A	Unsigned integer Value range: 0 to 100	N/A
AnalyValue	Analysis value	Traffic or BandWidth	Unsigned integer Value range: 1 to $2^{64}-1$	N/A
ContextID	Context ID	N/A	Unsigned integer	N/A

NTOP/TrafficDistribution

This table is used to get the traffic time distribution information.

XML structure

```

<NTOP>
  <TrafficDistribution>
    <Distribution>
      <ContextID></ContextID>
      <FilterType></FilterType>
      <FilterCondition></FilterCondition>
      <TrafficType></TrafficType>
      <TimeRange></TimeRange>
      <TimeFilter>
        <StartTime></StartTime>
        <EndTime></EndTime>
      </TimeFilter>
      <DistributeVlaues>
        <Time></Time>
        <Bytes></Bytes>
      </DistributeVlaues>
      <UserID></UserID>
    </Distribution>
  </TrafficDistribution>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficDistribution
Table Type	Multi-instance table
Row name	Distribution
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
TimeRange	Time range	Index	Enumeration: 0—Hour 1—Day 2—Week	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
DistributeValues	Distribute value list	Data structure	Members include: - Time - Bytes	N/A
Time	Time values in this time range.	N/A	Unsigned integer Value range: 0 to 31	When TimeRange is 0, the time value range 0 to 23 represents 24 hours; When TimeRange is 1, the time value range 1 to 31 represents 31 days; When TimeRange is 2, the time value range 1 to 7 represents 7 days in a week.
Bytes	Traffic bytes in this time range.	Traffic	Unsigned integer Value range: 1 to $2^{64}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	N/A	Unsigned integer	N/A

NTOP/TrafficConstant

This table is used to get the traffic information constantly.

XML structure

```

<NTOP>
  <TrafficConstant>
    <Constant>
      <ContextID></ContextID>
      <ConstantType></ConstantType>
      <SortType></SortType>
      <TopNumber></TopNumber>
      <ContextName></ContextName>
      <ConstantValues>
        <TotalBytes></TotalBytes>
        <Bytes></Bytes>
        <ReplyBytes></ReplyBytes>
        <ConstantName></ConstantName>
        <ConstantPercent></ConstantPercnet>
      </ConstantVlaues>
      <UserID></UserID>
    </Constant>
  </TrafficConstant>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	TrafficConstant
Table Type	Multi-instance table
Row name	Constant
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer.	Used to distinguish

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to $2^{32}-1$.	different requests.
ConstantType	Type of the constant data	Index	Enumeration: 0—SrcIP 1—Application	N/A
SortType	The type of data sort	N/A	Enumeration: 0—TotalBytes 1—Bytes 2—ReplyBytes	
TopNumber	Display first N data	N/A	Unsigned integer Value range: 0 to 100	
ConstantValues	Constant value list	Data structure	Members include: - TotalBytes - Bytes - ReplyBytes - ConstantName - ConstantPercent	N/A
TotalBytes	Total bytes	N/A	Unsigned integer. Value range: 1 to $2^{64}-1$	N/A
Bytes	Bytes	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ConstantName	The name of constant data	N/A	String. Length: 1 to 63 characters.	N/A
ConstantPercent	The percent of constant data in total data.	N/A	Unsigned integer Value range: 0 to 100	N/A
ContextID	Context ID	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$	N/A
ContextName	Context name	N/A	String Length: 1 to 15 characters.	N/A

NTOP/ReportRss

This table is used to get the report subscription configuration.

XML structure

```

<NTOP>
  <ReportRss>
    <Rss>
      <ReportType></ReportType>
      <MailId></ MailId >
      <MailAddr></MailAddr>
    </Rss>
  </ReportRss>
</NTOP>

```

```

    </ReportRss>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ReportRss
Table type	Multi-instance table
Row name	Rss
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report	N/A
MailId	Mail Id	Index	Unsigned integer. Value range: 1 to $2^{32}-1$	N/A
MailAddr	Mail address	N/A	String, case insensitive Length: 1 to 127 characters	N/A.

NTOP/PersistDiskCfg

This table is used to set the persistence disk configuration.

XML structure

```

<NTOP>
  <PersistDiskCfg>
    <DBCfg>
      <ServiceType></ServiceType>
      <ServiceUsed></ServiceUsed>
      <ServiceFree></ServiceFree>
      <ServiceDiskLimit></ServiceDiskLimit>
      <ServiceAlarmLimit></ServiceAlarmLimit>
    </DBCfg>
  </PersistDiskCfg>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	PersistDiskCfg
Table type	Multi-instance table
Row name	DBCfg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceAlarmLimit	Alarm limit percent	N/A	Unsigned integer. Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
ServiceType	Service type	Index	Enumeration: 1—Global service 2—Audit service 3—Traffic service 4—Threat service 5—URLFilter service 6—Filefilter service	N/A
ServiceUsed	Service disk used	N/A	Unsigned integer. Value range: 1 to $2^{64}-1$.	N/A
ServiceFree	Service disk free	N/A	Unsigned integer. Value range: 1 to $2^{64}-1$.	N/A
ServiceDiskLimit	Service disk limit percent	N/A	Unsigned integer. Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.

NTOP/ReportChapter

This table contains informations about report chapter name.

XML structure

```
<NTOP>
  <ReportChapter>
    <Chapter>
```

```

    <ReportType></ReportType>
    <ChapterNo></ChapterNo>
    <ChapterNameEN></ChapterNameEN>
    <ChapterNameCN></ChapterNameCN>
  </Chapter>
</ReportChapter>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	ReportChapter
Table type	Multi-instance table
Row name	Chapter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report	N/A
ChapterNo	The number of chapter	N/A	Unsigned integer. Value range: 1 to 32	N/A
ChapterName EN	Chapter Chinese name	N/A	String, case-insensitive. Length: 1 to 63 characters.:	N/A
ChapterName CN	Chapter English name	N/A	String, case-insensitive. Length: 1 to 63 characters.:	N/A

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Resource Summary for Feature

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
TrafficLog	/api/v1/NTOP/TrafficLog	Y	N	N	N
TrafficTop	/api/v1/NTOP/TrafficTop	Y	N	N	N
TrafficTopChart	/api/v1/NTOP/TrafficTopChart	Y	N	N	N
ThreatLog	/api/v1/NTOP/ThreatLog	Y	N	N	N
ThreatTop	/api/v1/NTOP/ThreatTop	Y	N	N	N
ThreatTopChart	/api/v1/NTOP/ThreatTopChart	Y	N	N	N
URLLog	/api/v1/NTOP/URLLog	Y	N	N	N
URLTop	/api/v1/NTOP/URLTop	Y	N	N	N
URLTopChart	/api/v1/NTOP/URLTopChart	Y	N	N	N
FileLog	/api/v1/NTOP/FileLog	Y	N	N	N
FileTop	/api/v1/NTOP/FileTop	Y	N	N	N
FileTopChart	/api/v1/NTOP/FileTopChart	Y	N	N	N
LogPaging	/api/v1/NTOP/LogPaging	Y	N	N	N
TrafficHistogram	/api/v1/NTOP/TrafficHistogram	Y	N	N	N
TrafficDistribution	/api/v1/NTOP/TrafficDistribution	Y	N	N	N
TrafficConstant	/api/v1/NTOP/TrafficConstant	Y	N	N	N
LogAggregations	/api/v1/NTOP/LogAggregations	Y	N	N	N
PersistCfg	/api/v1/NTOP/PersistCfg	Y	N	N	N
ReporRss	/api/v1/NTOP/ReportRss	Y	N	N	N
PersistDiskCfg	/api/v1/NTOP/PersistDiskCfg	Y	N	N	N
ReportChapter	/api/v1/NTOP/ ReportChapter	Y	N	N	N

NTOP

TrafficLog

This table contains traffic log information. When a session ends, a traffic log will be stored locally. This table contains these logs. If there is not hard-disk on the device, only 10,000 entries can be stored, and new logs will overwrite the oldest.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the traffic log	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
EndTime	End time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
StartTime	Start time of the session	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters Case insensitive	N/A
SecurityPolicy	Security policy	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
NATSrcIP	NAT source IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATSrcPort	NAT source port	N/A	Unsigned integer	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
NATDstIP	NAT Destination IP	N/A	String, case insensitive Length: 1 to 46 characters	N/A
NATDstPort	NAT destination	N/A	Unsigned integer	N/A

	port			
Bytes	Bytes	N/A	Unsigned integer	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer	N/A
Pkts	Packets	N/A	Unsigned integer	N/A
ReplyPkts	Reply packets	N/A	Unsigned integer	N/A
SrcInterface	Source interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
DstInterface	Destination interface	N/A	String, case insensitive Length: 1 to 47 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
UAppSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SessionCount	Session count	N/A	Unsigned integer	Counts of aggregated data.

Example

Example 1: Get data form resource TrafficLog.

JSON Request

GET /api/v1/Feature/Table

JSON Response

200 OK

```
{
  "TrafficLog": [
    {
      "ID": 52,
      "UserID": 0,
      "StartTime": "2016-11-01T16:13:11",
      "EndTime": "2016-11-01T16:13:12",
      "ContextName": "Admin",
      "Protocol": "UDP",
      "Application": "dns",
      "SrcZoneName": "spf",
      "SrcIPAddr": "101.1.1.90",
      "SrcPort": 4067,
      "NATSrcPort": 0,
      "User": "abc",
      "DestZoneName": "spf",
      "DestIPAddr": "102.1.1.90",
    }
  ]
}
```



```

        "DestPort":53,
        "NATDstPort":0,
        "Bytes":56,
        "ReplyBytes":174,
        "Pkts":1,
        "ReplyPkts":1,
        "SrcInterface": "GigabitEthernet1/0/0",
        "SrcVrfIndex":0,
        "DstInterface": "GigabitEthernet1/0/1",
        "UappSubCategory": "Protocol",
        "SessionCount":1
    }
}

```

TrafficTop

This table is used to get the top information of TrafficLog table.

The attributes in GroupValue must match the GroupType. For example, if the group-type is SrcIP, the value in GroupValue should be :

```
<SrcIP>1.2.3.4</SrcIP>
```

Other columns in GroupValue must not exist. The ConnCounter are the number of sessions that include this ip as a initiator and BytesCounter are bytes sent and received by this IP on all this ip initiated sessions. TopNo means the BytesCounter's order in all BytesCounter values.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer 0—SrcIP 2—Application 3—User 6—ContextName 8—UAppSubCategory	Set form representation, For example, If sort by application, The GroupType is 2.
TrafficType	Type of the traffic	Index	Enumeration: 0—Total Bytes 1—Bytes 2—Reply Bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.

TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - SrcIP - DstIP - Application - UAppSubCategory - User	N/A
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters Case insensitive	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UappSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupValue	Group value	Data structure	Members include: - SrcIP - DstIP - Application - UAppSubCategory - User - BandWidth - SrcRegion - DestRegion - ContextName	N/A
SrcIP	Source IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A
UappSubCategory	Application category of the session	N/A	String, case insensitive Length: 1 to 63 characters	N/A

User	User of the session	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcRegion	Source Region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination Region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
GroupCounters	Group counters	Data structure	Members include: - Bytes - TotalBytes - ReplyBytes - ConnCounter	N/A
BytesCounter	Bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
TotalBytes	Total Bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ReplyBytes	Reply Bytes within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ConnCounter	Session count within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
BytesTotal	All Bytes within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	If TrafficType is 1, the BytesTotal is the total number of ReplyBytes, If TrafficType is 2, the BytesTotal is the total number of Bytes. Otherwise the BytesTotal is the total number of TotalBytes.
ConnTotal	All session count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Example

Example 1: Get data form resource TrafficTop.

JSON Request

GET /api/v1/NTOP/ TrafficTop?index=TopNo%3D1%3BGroupType%3D1%3BTrafficType%3D1%3BUserID%3D1

JSON Response

200 OK

```
{ "TrafficTop": [  
  {  
    "TopNo": 1,  
    "GroupType": 4,  
    "TrafficType": 0,  
    "UserID": 1,  
    "StartTime": "2016-11-02T00:00:00",  
    "EndTime": "2016-11-02T23:59:59",  
    "Application": "http",  
    "BytesCounter": 1454684,  
    "TotalBytes": 21438336,  
    "ReplyBytes": 19983652,  
    "ConnCounter": 119,  
    "BytesTotal": 42758074,  
    "ConnTotal": 418  
  },  
  {  
    "TopNo": 2,  
    "GroupType": 4,  
    "TrafficType": 0,  
    "UserID": 1,  
    "StartTime": "2016-11-02T00:00:00",  
    "EndTime": "2016-11-02T23:59:59",  
    "Application": "ftp-data",  
    "BytesCounter": 211344,  
    "TotalBytes": 14283131,  
    "ReplyBytes": 14071787,  
    "ConnCounter": 186,  
    "BytesTotal": 42758074,  
    "ConnTotal": 418  
  }  
]
```

TrafficTopChart

This table is used to get the TrafficLog's byte number distribution every hour.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
GroupValue	Group value	Data structure	Members include: - SrcIP - DstIP - Application - UAppSubCategory - User - ContextName - Bandwidth - SrcRegion - DestRegion	N/A
SrcIP	Source IP address of the session	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address of the session	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
UAppSubCategory	Application category of the session	Index	String, case insensitive Length: 1 to 63 characters	N/A
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A
ContextName	Name of the context	Index	String, case insensitive Length: 1 to 15 characters	N/A
Bandwidth	Bandwidth	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Bytes	Bytes at this point in Time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	Multiple values.
ReplyBytes	Reply bytes at	N/A	Unsigned integer	Multiple values.

	this point in time.		Value range: 0 to $2^{64}-1$	
TotalBytes	Total bytes at this point in time.	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	Multiple values.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

Example

Example 1: Get data form resource TrafficTopChart.

JSON Request

```
GET /api/v1/NTOP/TrafficTopChart?index=TrafficType%3D1%3BSrcIP%3D1%3BApplication%3D1%3BUAppSubCategory%3D1%3BUser%3D1%3BContextName%3D1
```

JSON Response

200 OK

```
{ "TrafficTopChart ":[
  {
    "TrafficType":0,
    "Application":https,
    .....
    "Time": "2016-11-02T16:35:00",
    "Time": "2016-11-02T16:40:00",
    "Time": "2016-11-02T16:45:00",
    .....
    "Bytes":51818,
    "Bytes":154657,
    "Bytes":39345,
    .....
    "ReplyBytes":740692,
    "ReplyBytes":16096,
    "ReplyBytes":17900,
    .....
    "TotalBytes":773382,
    "TotalBytes":25280,
```

```

        "TotalBytes":25622,
        .....
        "StartTime":"2016-11-02T00:00:00",
        "EndTime":"2016-11-02T23:59:59",
    }
}

```

ThreatLog

This table contains Threat Log information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the ThreatLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	Threatlog generation time	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive	N/A

			Length: 1 to 63 characters	
Protocol	Protocol	N/A	String, case insensitive Length: 1 to 31 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
Severity	Severity of the rule	N/A	Unsigned integer	N/A
RealIP	Real IP	N/A	String, case insensitive Length: 1 to 127 characters	N/A
CVE	CVE	N/A	String, case insensitive Length: 1 to 127 characters	N/A
BID	BID	N/A	String, case insensitive Length: 1 to 127 characters	N/A
MSB	MSB	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Policy	Name of the threat policy	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
AttackCount	Attack Count	N/A	Unsigned integer	Number of polymerization, Aggregated configuration depends on table LogAggregations.
User	User of the session	Index	String, case insensitive Length: 1 to 127 characters	N/A

Example

Example 1: Get data form resource ThreatLog.

JSON Request

GET /api/v1/NTOP/ThreatLog?index=ID%3D1%3BUserID%3D1%3BUser%3D1

JSON Response

200 OK

```
{
  "ThreatLog": [
    {
      "ID": 66796,
      "UserID": 2,
      "Time": "2016-11-02T16:35:12",

```



```

        "ThreatType": "AV",
        "ThreatID": 95,
        "ThreatName": "MODIFIED-EICAR-Test-File",
        "SrcZoneName": "spf",
        "DestZoneName": "spf",
        "SrcIPAddr": "101.1.1.90",
        "SrcPort": 53883,
        "DestIPAddr": "102.1.1.90",
        "DestPort": 110,
        "Application": "pop3",
        "Protocol": "TCP",
        "Action": 20,
        "Severity": 30,
        "RealIP": "102.1.1.90",
        "CVE": "CVE-2014-0302",
        "BID": "BID-190",
        "MSB": "MS14-012",
        "Policy": "2",
        "ContextName": "Admin",
        "SrcVrfIndex": "0",
        "AttackCount": 1,
        "User": "12345678901234567890123456789012",
    }
}

```

ThreatTop

This table is used to get the top information of ThreatLog table.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer 0: ThreatType 1: Application 2: Attacker	Set form representation, For example, If ranked by the Application, The GroupType is 2.

			3: AttackTarget 4: ThreatID 5: User 8: AVID	
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - ThreatType - ThreatID - Attacker - AttackTarget - Application - User - SrcRegion - DestRegion	N/A
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupValue	Group value	Data structure	Members include: - ThreatType - ThreatID - ThreatName - Application	N/A

			- Attacker - AttackTarget - User - SrcRegion - DestRegion	
ThreatType	Threat type	N/A	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
ThreatName	Threat name	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
SrcRegion	Source Region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination Region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
GroupCounters	Group counters	Data structure	Members include: ThreatCounter.	N/A
ThreatCounter	Threat counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
AttackTotal	All attack count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Example

Example 1: Get data form resource ThreatTop.

JSON Request

GET /api/v1/NTOP/ThreatTop?index=TopNo%3D1%3BGroupType%3D1%3BUserID%3D1

JSON Response

200 OK

```
{
  "ThreatTop": [
    {
      "TopNo": 1,
```

```

    "GroupType":2,
    "UserID":22,
    "StartTime":"2016-11-02T00:00:00",
    "EndTime":"2016-11-02T23:59:59",
    "Application":"http",
    "ThreatCounter":13572,
    "AttackTotal":14455
  },
  {
    "TopNo":2,
    "GroupType":2,
    "UserID":22,
    "StartTime":"2016-11-02T00:00:00",
    "EndTime":"2016-11-02T23:59:59",
    "Application":"126WebEmail",
    "ThreatCounter":372,
    "AttackTotal":14455
  }
}

```

ThreatTopChart

This table contains Threat Log Top Chart information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	GroupValue	Data structure	Members include: - ThreatType - ThreatID - Application - Attacker - AttackTarget - SrcRegion - DestRegion - User	N/A
ThreatType	Threat type	Index	Enumeration: 1—IPS 2—AV	N/A
ThreatID	Threat ID	Index	Unsigned integer	N/A

Application	Application	Index	String, case insensitive Length: 1 to 63 characters	N/A
Attacker	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
AttackTarget	Destination IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounts	Statistic data	Data structure	Members include: - Time - HitCounter	One point every five minutes for the data within one day;one point every ont hour for the data that surpass 24 hours.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
AttackCounter	Attack counts in this time.	N/A	Unsigned integer	Multiple values.

Example

Example 1: Get data form resource ThreatTopChart.

JSON Request

GET

/api/v1/NTOP/ThreatTopChart?index=ThreatType%3D1%3BThreatID%3D1%3BApplication%3D1%3BAttacker%3D1%3BAttackTarget%3D1%3BUser%3D1

JSON Response

200 OK

```
{
  "ThreatTopChart": [
    {
      "ThreatType": 0,
```

```

    "Application": "126 邮箱",
    "ThreatID": 0,
    "StartTime": "2016-11-02T00:00:00",
    "EndTime": "2016-11-02T23:59:59",
    .....
    "Time": "2016-11-02T16:30:00",
    "Time": "2016-11-02T16:35:00",
    "Time": "2016-11-02T16:40:00",
    .....
    "AttackCounter": 60,
    "AttackCounter": 56,
    "AttackCounter": 60,
    .....
  }
}

```

URLLog

This table contains URLLog information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the URLLog	Index	Unsigned integer	N/A
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
Time	URLlog generation time.	N/A	Format: YYYY-MM-DDTHH:MM:SS	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
URL	URL	N/A	String, case insensitive Length: 1 to 511 characters	N/A
SrcZoneName	Source zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
SrcPort	Source port	N/A	Unsigned integer	N/A
DestZoneName	Destination zone name	N/A	String, case insensitive Length: 1 to 31 characters	N/A

DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	N/A
DestPort	Destination port	N/A	Unsigned integer	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
Action	Action of the rule	N/A	Unsigned integer	N/A
SecurityPolicy	Name of the URL policy	N/A	String, case insensitive Length: 1 to 31 characters	N/A
ContextName	Name of the context	N/A	String, case insensitive Length: 1 to 15 characters	N/A
SrcVrfIndex	Source VRF index	N/A	Unsigned integer	N/A
SrcRegion	Source region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
DestRegion	Destination region	N/A	String, case insensitive Length: 1 to 127 characters	N/A
VistCount	Visit count	N/A	Unsigned integer	Configuration depends on the table LogAggregations.

Example

Example 1: Get data form resource URLLog.

JSON Request

GET /api/v1/NTOP/URLLog?index=ID%3D1%3BUserID%3D1

JSON Response

200 OK

```
{
  "URLLog": [
    {
      "ID": 70896,
      "UserID": 7,
      "Time": "2016-11-02T17:28:11",
      "URLCategory": "Unknown",
      "FilterType": 0,
      "URL": "www.h3c.com.cn/pub/2015_Event/H3CB_2015/img/moren_2.png",
      "SrcZoneName": "spf",
      "DestZoneName": "spf",
      "SrcIPAddr": "101.1.1.90",
      "SrcPort": 2196,

```

```

        "DestIPAddr": "102.1.1.90",
        "DestPort": 80,
        "Application": "http",
        "User": "12345678901",
        "Action": 0,
        "SecurityPolicy": "2",
        "ContextName": "Admin",
        "SrcVrfIndex": 0,
        "VistCount": 1
    }
}

```

URLTop

This table contains URL Log Top information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking type	Index	Unsigned integer 0: URLCategory 1: Website 2: User 3: SrcIP 4: DstIP	Set form representation, For example, If ranked by the Website, The GroupType is 2.
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
MatchFilter	Group value	Data structure	Members include: - User - URLCategory - SrcIP - DstIP - Website	N/A

User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: - User - URLCategory - SrcIP - DstIP - Website	N/A
User	User	N/A	String, case insensitive Length: 1 to 127 characters	N/A
URLCategory	URL category	N/A	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP address	N/A	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: ThreatCounter	N/A
URLVisitCounter	URL visit counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
CountTotal	All attack count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Example

Example 1: Get data form resource URLTop.

JSON Request

GET /api/v1/NTOP/URLTop?index=GroupType%3D1%3BUserID%3D1

JSON Response

200 OK

```
{
  "URLTop": [
    {
      "TopNo": 1,
      "GroupType": 2,
      "UserID": 4,
      "StartTime": "2016-11-02T00:00:00",
      "EndTime": "2016-11-02T23:59:59",
      "Website": "www.h3c.com.cn",
      "URLVistCounter": 29026,
      "CountTotal": 31572
    },
    {
      "TopNo": 2,
      "GroupType": 2,
      "UserID": 4,
      "StartTime": "2016-11-02T00:00:00",
      "EndTime": "2016-11-02T23:59:59",
      "Website": "mail.126.com",
      "URLVistCounter": 1035,
      "CountTotal": 31572
    }
  ]
}
```

URLTopChart

This table contains URL Log Top Chart information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: • URLCategory • SrcIP • DstIP • Website • User	N/A

URLCategory	URL category	Index	String, case insensitive Length: 1 to 63 characters	N/A
SrcIP	Source IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
DstIP	Destination IP	Index	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
Website	Website	Index	String, case insensitive Length: 1 to 63 characters	N/A
User	User	Index	String, case insensitive Length: 1 to 127 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounts	Statistic data	Data structure	Members include: - Time - HitCounter	One point every five minutes for the data within one day; one point every one hour for the data that surpass 24 hours.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
URLVistCounter	Hit count at this point in Time.	N/A	Unsigned integer	Multiple values.

Example

Example 1: Get data form resource URLTopChart.

JSON Request

GET

/api/v1/NTOP/URLTopChart?index=URLCategory%3D1%3BSrcIP%3D1%3BDstIP%3D1%3BWebsite%3D1%3BUser%3D1

JSON Response

200 OK

```
{
  "URLTop": [
    {
      "Website": "news.sohu.com",
      "StartTime": "2016-11-02T00:00:00",

```

```

        "EndTime":"2016-11-02T23:59:59",
        .....
        "Time":"2016-11-02T16:30:00",
        "Time":"2016-11-02T16:35:00",
        "Time":"2016-11-02T16:40:00",
        .....
        "URLVistCounter":24,
        "URLVistCounter":43,
        "URLVistCounter":44,
        .....
    }
}

```

FileLog

This table contains FileLog information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
Time	time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 8 characters	N/A
SrcZoneName	Name of source zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
DestZoneName	Name of destination zone	N/A	String, case insensitive Length: 1 to 31 characters	N/A
SrcIPAddr	Source IP Address	Data structure	String, case insensitive Length: 1 to 46 characters	IPv4 or IPv6 address.
SrcPort	Source Port	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
DestIPAddr	Destination IP address	N/A	String, case insensitive Length: 1 to 63 characters	IPv4 or IPv6 address.

DestPort	Destination port	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
Application	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
Action	Action of the rule.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
ContextName	Name of the context.	N/A	String, case insensitive Length: 1 to 15 characters	N/A
VistCount	Visit count.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	Number of polymerization, Aggregated configuration depends on table LogAggregations.

Example

Example 1: Get data form resource FileLog.

JSON Request

GET /api/v1/NTOP/FileLog? index=ID%3D1%3BUserID%3D1

JSON Response

200 OK

```
{
  "FileLog": [
    {
      "ID": 66471,
      "UserID": 1,
      "Time": "2016-11-02T17:51:38",
      "FileType": "aaa",
      "SrcZoneName": "spf",
      "DestZoneName": "spf",
      "SrcIPAddr": "101.1.1.90",
      "SrcPort": 54573,
      "DestIPAddr": "102.1.1.90",
      "DestPort": 80,
      "Application": "http",
      "Action": 0,
      "ContextName": "Admin",
      "VistCount": 1
    }
  ]
}
```

FileTop

This table contains File Log Top information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TopNo	Ranking No	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
GroupType	Ranking Type	Index	Unsigned integer • 0: FileType	Set form representation,For example,If ranked by the FileType,The GroupType is 1.
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
TimeFilter	Query time range	Data structure	Members include: • StartTime • EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupValue	Group value	Data structure	Members include: FileType	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounts	Group counters	Data structure	Members include: HitCounter	N/A
HitCounter	Hit counter within the statistical time of the GroupValue.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A
HitCounterTotal	All hit count within the statistical time.	N/A	Unsigned integer Value range: 0 to $2^{32}-1$	N/A

Example

Example 1: Get data form resource FileTop.

JSON Request

GET /api/v1/NTOP/FileTop? index=TopNo%3D1%3BGroupType%3D1

JSON Response

200 OK

```
{
  "FileTop": [
    {
      "TopNo": 1,
      "GroupType": 1,
      "UserID": 2,
      "StartTime": "2016-11-02T00:00:00",
      "EndTime": "2016-11-02T23:59:59",
      "FileType": "aaa",
      "HitCounter": 237,
      "HitCounterTotal": 237
    }
  ]
}
```

FileTopChart

This table is used to get the FileLog's byte number distribution every hour or Five minutes.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupValue	Group value	Data structure	Members include: FileType	N/A
FileType	File Type	Index	String, case insensitive Length: 1 to 8 characters	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End statistic time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
GroupCounts	Statistic data	Data structure	Members include: - Time - HitCounter	When the statistical time is less than 1 days, according to 5 minutes to take points, otherwise, according to 1 hours to get a point. Up to one month's

				data.
Time	Time of the data	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Multiple values.
HitCounter	Hit count at this point in Time.	N/A	Unsigned integer	Multiple values.

Example

Example 1: Get data form resource FileTopChart.

JSON Request

GET /api/v1/NTOP/FileTopChart? index=FileType%3D1

JSON Response

200 OK

```
{ "FileTopChart ": [
  {
    "FileType": "aaa",
    "StartTime": "2016-11-02T00:00:00",
    "EndTime": "2016-11-02T23:59:59",
    .....
    "Time": "2016-11-02T16:20:00",
    "Time": "2016-11-02T16:25:00",
    "Time": "2016-11-02T16:30:00",
    .....
    "HitCounter": 2,
    "HitCounter": 2,
    "HitCounter": 8,
    .....
  }
]}
```

LogAggregations

This table is used to get the LogAggregation's information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: • 1—ThreatLog • 2—TrafficLog • 3—URLLog • 4—FFilterLog	N/A
Enabled	Aggregation or not	N/A	Boolean: • true • false	N/A
Time	Aggregation time in seconds	N/A	Unsigned integer Value range:10 to 60.	Default is 60 seconds.

Example

Example 1: Get data form resource LogAggregations.

JSON Request

GET /api/v1/NTOP/LogAggregations?index=LogType%3D1

JSON Response

200 OK

```
{" LogAggregations ":[
  {
    "LogType":1,
    "Enabled":1,
    "Time":60
  }
]}
```

Example 2: Add new Instance for the resource LogAggregations.

Json Request

POST /api/v1/NTOP/LogAggregations

```
{
  "LogType":1,
  "Enabled":1,
  "Time":60
}
```

Json Response

201 Created

Example 3: Change the data to the resource LogAggregations.

Json Request

PUT /api/v1/NTOP/LogAggregations?index= LogType%3D1

```
{
  "LogType":1,
  "Enabled":1,
  "Time":60
}
```

Json Response

204 No Content

Example 4: Delete the data from the resource table.

Json Request

DELETE /api/v1/NTOP/LogAggregations?index=LogType%3D1

Json Response

204 No Content

LogPaging

This table is used to get the log paging information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
LogType	Log type	Index	Enumeration: 1—ThreatLog 2—TrafficLog 3—URLLog 4—FFilterLog	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
ID	Reserve column	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A

PageNo	Page number to display	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
CountPerPage	Number of logs per page	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
TotalCounts	Log total count	Index	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
InputJson	Input parameter to get log	N/A	String, case insensitive Length: 1 to 2048 characters	When LogType is 1, InputJSON uses ThreatLog Filter conditions. When LogType is 2, InputJSON uses TrafficLog Filter conditions. When LogType is 3, InputJSON uses URLLog Filter conditions. When LogType is 4, InputJSON uses FFilterLog Filter conditions.
OutputJson	Log information	N/A	String, case insensitive Length: 1 to 2048 characters	When LogType is 1, OutputJSON uses ThreatLog output structure. When LogType is 2, OutputJSON uses TrafficLog output structure. When LogType is 3, OutputJSON uses URLLog output structure. When LogType is 4, OutputJSON uses FFilterLog output structure.
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A

Example

Example 1: Get data form resource LogPaging.

JSON Request

GET /api/v1/NTOP/ LogPaging? index= LogType%3D1%3BUserID%3D1

JSON Response

200 OK

```
{ "LogPaging": [
  {
    "LogType":1,
    "UserID":0,
    "ID":2,
    "PageNo":2,
    "CountPerPage":25,
    "TotalCounts":100,
    "StartTime":"2016-11-28T00:00:00",
    "EndTime":"2016-11-28T23:59:59",
    "InputJson": {
      "Application":"dns",
    },
    "OutputJson": {
      "StartTime":"2016-11-28T00:00:00",
      "EndTime":"2016-11-28T01:50:51",
      "ContextName":"Admin",
      "Protocol":"UDP",
      "Application":"dns",
      "SrcZoneName":"spf",
      "SrcIPAddr":"101.1.1.90",
      "SrcPort":"4067",
      "NATSrcPort":0,
      "User":"abc",
      "DestZoneName":"spf",
      "DestIPAddr":"102.1.1.90",
      "DestPort":53,
      "NATDstPort":0,
      "Bytes":56,
      "ReplyBytes":174,
      "Pkts":1,
      "ReplyPkts":1,
      "SrcInterface":"GigabitEthernet1/0/0",
      "SrcVrfIndex":0,
      "DstInterface":"GigabitEthernet1/0/1",
      "UappSubCategory":"Protocol",
```

```

        "SessionCount":1
    },
}
}}

```

TrafficHistogram

This table is used to get the traffic histogram information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
AnalyType	Analysis type	Index	Unsigned integer 0—Traffic flow 1—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
AnalyValues	Analysis value list	Data structure	Members include: - Percent - AnalyValue	N/A
Percent	Percent of an analysis value	N/A	Unsigned integer Value range: 0 to 100	N/A

AnalyValue	Analysis value	Traffic or BandWidth	Unsigned integer Value range: 1 to $2^{64}-1$	N/A
ContextID	ContextID	N/A	Unsigned integer	N/A

Example

JSON Request

GET /api/v1/NTOP/ TrafficBar? index= GroupType %3D1%3B AnalyType %3D0%3B TrafficType%3D1%3B UserID%3D1

JSON Response

200 OK

```
{ "TrafficBar": [
  {
    "AnalyType": 0,
    "TrafficType": 1,
    "ContextID": 1,
    "FilterType": 1,
    "FilterCondition": " 101.1.1.222",
    "StartTime": " 2016-11-02T00:00:00",
    "EndTime": " 2016-11-02T23:59:59",
    "Percent": 20,
    "AnalyValue": 10,
    "UserID": 1
  }
]}
```

TrafficDistribution

This table is used to get the traffic distribution information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficType	Type of the traffic	Index	Enumeration: 0—Total bytes 1—Bytes 2—Reply bytes	N/A

TimeRange	Time range	Index	Enumeration: 0—Hour 1—Day 2—Week	N/A
UserID	User ID	Index	Unsigned integer Value range: 1 to $2^{32}-1$	Used to distinguish different requests.
FilterType	Filter type	N/A	Unsigned integer 1—SrcIP 4—Application 8—User 64—ContextName	For example, to filter the statistics by application, set the GroupType value to 4.
FilterCondition	Filter condition	N/A	String Length: 1 to 255 characters.	N/A
TimeFilter	Query time range	Data structure	Members include: - StartTime - EndTime	N/A
StartTime	Start time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
EndTime	End time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
DistributeValues	Distribute value list	Data structure	Members include: - Time - Bytes	N/A
Time	Time values in this time range	N/A	Unsigned integer Value range: 0 to 31	When TimeRange is 0, the time value range 0 to 23 represents 24 hours; When TimeRange is 1, the time value range 1 to 31 represents 31 days; When TimeRange is 2, the time value range 1 to 7 represents 7 days in a week.
Bytes	Traffic bytes in this time range	Traffic	Unsigned integer Value range: 1 to $2^{64}-1$	N/A
ContextID	ContextID	N/A	Unsigned integer	N/A

Example

JSON Request

```
GET /api/v1/NTOP/TrafficDistribution? index=GroupType %3D1%3BTrafficType %3D1%3B
TimeRange%3D1%3B UserID%3D1
```

JSON Response

200 OK

```
{ "TrafficDistribution ": [
  {
    "TrafficType":1,
    "ContextID":1,
    "FilterType":1,
    "FilterCondition": " 101.1.1.222",
    "TimeRange":1,
    "StartTime": " 2016-11-02T00:00:00",
    "EndTime": " 2016-11-02T23:59:59",
    "Time":2,
    "Bytes":56,
    "UserID":1
  }
]}
```

TrafficConstant

This table is used to get the traffic information constantly.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	User ID	Index	Unsigned integer	Used to distinguish different requests.
ConstantType	Type of the constant data	Index	Enumeration: 0—SrcIP 1—Application	N/A
SortType	The type of data sort	N/A	Enumeration: 0—TotalBytes 1—Bytes 2—ReplyBytes	
TopNumber	Display first N data	N/A	Unsigned integer Value range: 0 to 100	
ConstantValues	Constant value list	Data structure	Members include: - Total bytes - Bytes - ReplyBytes - ConstantName - ConstantPercent	N/A

TotalBytes	Total bytes	N/A	Unsigned integer Value range: 1 to $2^{64}-1$	N/A
Bytes	Bytes	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ReplyBytes	Reply bytes	N/A	Unsigned integer Value range: 0 to $2^{64}-1$	N/A
ConstantName	The name of constant data	N/A	String. Length: 1 to 63 characters.	N/A
ConstantPercent	The percent of constant data in total data.	N/A	Unsigned integer Value range: 0 to 100	N/A
ContextID	Context ID	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
ContextName	Context name	N/A	String Length: 1 to 15 characters.	N/A

Example

JSON Request

GET /api/v1/NTOP/TrafficConstant? index= UserID%3D1

JSON Response

200 OK

```
{ "TrafficConstant": [
  {
    "UserID":1,
    "ConstantType":1,
    "SortType":1,
    "TopNumber":1,
    "TotalBytes":12256,
    "Bytes":12000,
    "ReplyBytes":256,
    "ConstantName": "http",
    "ConstantPercent":94,
    "ContextID": 1,
    "ContextName": "Admin"
  }
]}
```

PersistCfg

This table is used to get the persistence configuration.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceType	Service type	Index	Enumeration: 1—Global service 2—Audit service 3—Traffic service 4—Threat service 5—URLFilter service 6—Filefilter service	N/A
AutoDeleteEnable	Whether AutoDelete is enabled or not	N/A	Boolean: - true - false	N/A
LimitTime	Maximum number of days that the data can be stored	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	Multiple values.
DiskEnable	Whether the device mounts the hard disk	N/A	Boolean: - true - false	N/A
LogLimit	Log records limit	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
TrendLimit	Trend records limit	N/A	Unsigned integer Value range: 1 to $2^{32}-1$	N/A
DBSoftware	Database software of this service	N/A	Enumeration: 1—Sqlite 2—Fastbit	N/A

Example

Example 1: Get data form resource PersistCfg.

JSON Request

GET /api/v1/NTOP/ PersistCfg?index=LogType%3D1

JSON Response

200 OK

```
{"PersistCfg": [
  {
    "LogType": 1,
    "AutoDeleteEnable": 1,
```

```

        "LimitTime":20,
        "DiskEnable":1,
        "LogLimit":1024,
        "TrendLimit":1024,
        "DBSoftware":1
    }
}

```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/NTOP/ PersistCfg

```

{
    "LogType":1,
    "AutoDeleteEnable":1,
    "LimitTime":20,
    "DiskEnable":1,
    "LogLimit":1024,
    "TrendLimit":1024,
    "DBSoftware":1
}

```

Json Response

201 Created

Example 3: Change the data to the resource table.

Json Request

PUT /api/v1/NTOP/ PersistCfg?index= LogType%3D1

```

{
    "LogType":1,
    "AutoDeleteEnable":1,
    "LimitTime":20,
    "LogLimit":1024,
    "TrendLimit":1024,
    "DBSoftware":1
}

```

Json Response

204 No Content

Example 4: Delete the data from the resource table.

Json Request

DELETE /api/v1/NTOP/ PersistCfg?index=LogType%3D1

Json Response

204 No Content

ReportRss

This table is used to set the reportrss configuration.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report	N/A
MailId	Mail Id	Index	Unsigned integer. Value range: 1 to $2^{32}-1$	N/A
MailAddr	Mail address	N/A	String, case insensitive Length: 1 to 127 characters	N/A.

Example

Example 1: Get data form resource ReportRss.

JSON Request

GET /api/v1/NTOP/ ReportRss?index=ReportType%3D1

JSON Response

200 OK

```
{"ReportRss ":[
  {
    "ReportType":1,
    "MailAddr":"KF.zhang.chunxia@h3c.com",
  }
]}
```

```
}}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/NTOP/ ReportRss

```
{  
    "ReportType":1,  
    "MailAddr":"KF.zhang.chunxia@h3c.com",  
}
```

Json Response

201 Created

Example 3: Change the data to the resource table.

Json Request

PUT /api/v1/NTOP/ ReportRss?index=ReportType%3D1

```
{  
    "ReportType":1,  
    "MailAddr":"KF.zhang.chunxia@h3c.com",  
}
```

Json Response

204 No Content

Example 4: Delete the data from the resource table.

Json Request

DELETE /api/v1/NTOP/ ReportRss?index=ReportType%3D1

Json Response

204 No Content

PersistDiskCfg

This table is used to set the persistence disk configuration.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceAlarmLimit	Alarm limit percent.	N/A	Unsigned integer. Value range: 1 to 100	When disk usage reaches the alarm limit, the system deletes the oldest file.
ServiceType	Service type	Index	Enumeration: • 1—Global service • 2—Audit service • 3—Traffic service • 4—Threat service • 5—URLFilter service • 6—Filefilter service	N/A
ServiceUsed	Service disk used	N/A	Unsigned integer. Value range: 1 to $2^{64}-1$.	N/A
ServiceFree	Service disk free	N/A	Unsigned integer. Value range: 1 to $2^{64}-1$.	N/A
ServiceDiskLimit	Service disk limit percent.	N/A	Unsigned integer. Value range: 1 to 100	Global service disk limit is the maximum percentage of disk occupancy. Other service disk limit is the percentage occupancy in the Global service proportion.

Example

Example 1: Get data form resource PersistDiskCfg.

JSON Request

GET /api/v1/NTOP/ PersistDiskCfg?index= DiskLimit%3D1

JSON Response

200 OK

```
{"PersistDiskCfg":[
  {
    "ServiceType":1,
    "ServiceUsed":258,
    "ServiceFree":39742,
    "ServiceDiskLimit":80,
    "ServiceAlarmLimit":94,
  }
]}
```

Example 2: Add new Instance for the resource table.

Json Request

POST /api/v1/NTOP/ PersistDiskCfg

```
{
    "ServiceType":1,
    "ServiceUsed":0,
    "ServiceFree":0,
    "ServiceDiskLimit":80,
    "ServiceAlarmLimit":94,
}
```

Json Response

201 Created

Example 3: Change the data to the resource table.

Json Request

PUT /api/v1/NTOP/ PersistDiskCfg?index= DiskLimit %3D1

```
{
    "ServiceType":1,
    "ServiceUsed":0,
    "ServiceFree":0,
    "ServiceDiskLimit":80,
    "ServiceAlarmLimit":94,
}
```

Json Response

204 No Content

Example 4: Delete the data from the resource table.

Json Request

DELETE /api/v1/NTOP/ PersistDiskCfg?index= DiskLimit %3D1

Json Response

204 No Content

ReportChapter

This table contains informations about report chapter name.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportType	Report type	Index	Enumeration: 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report	N/A
ChapterNo	The number of chapter	N/A	Unsigned integer. Value range: 1 to 32	N/A
ChapterName EN	Chapter Chinese name	N/A	String, case-insensitive. Length: 1 to 63 characters.:	N/A
ChapterName CN	Chapter English name	N/A	String, case-insensitive. Length: 1 to 63 characters.:	N/A

Example

Example 1: Get data form resource ReportChapter.

JSON Request

GET /api/v1/NTOP/ ReportChapter?index= ReportType%3D1

JSON Response

200 OK

```
{"ReportChapter":[
  {
    "ReportType":1,
    "ChapterNo":167,
    "ChapterNameEN":"summary",
    "ChapterNameCN":"概述",
  }
]}
```


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Table description	5
Columns	5

NTP

NTP/Clients

This table contains NTP clients information.

XML structure

```
<NTP>
  <Clients>
    <Client>
      <Service></Service>
      <VRF></VRF>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <HostMode></HostMode>
      <IfIndex></IfIndex>
      <KeyID></KeyID>
      <Version></Version>
      <Priority></Priority>
    </Client>
  </Clients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: 1—NTP. 2—SNTP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF	Index	String. Length: 0 to 31 characters.	It can be empty when it represents a public VRF instance.
AddressType	Address type.	Index	Enumeration: 1—IPv4 2—IPv6	IPv6 is not supported.
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1::1.
HostMode	Client mode	Index	Enumeration: 1—Symmetric active. 3—Client.	The symmetric active mode is supported only for NTP.
IfIndex	Source interface index.	N/A	Unsigned integer.	This column supports only Layer 3 interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column specifies the key used for calculating the packet digest when the local end sends NTP messages to the peer.
Version	NTP version	N/A	Unsigned integer. Value range: 1 to 4, default value : 4	This column is only available for IPv4 address entries, and not available for IPv6 address entries.
Priority	Whether the specified peer is the first choice under the same condition.	N/A	Boolean: true. false (default).	Priority true is supported only for NTP.

NTP/ AuthenticationKey

This table contains information about NTP authentication.

XML structure

```

<NTP>
  <AuthenticationKey>
    <Authentication>
      <Service></Service>

```

```

        <KeyID></KeyID>
        <AuthMode></AuthMode>          <AuthKey></AuthKey>          <Reliable></Reliable>
    </Authentication>
</AuthenticationKey>
</NTP>

```

Table description

Item	Description
Feature name	NTP
Table name	AuthenticationKey
Table type	Multi-instance table
Row name	Authentication
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: 1—NTP. 2—SNTP.	N/A
KeyID	Key ID	Index	Unsigned integer. Value range: 1 to 4294967295.	This column is used to identify an authentication key.
AuthMode	Authentication mode	N/A	Enumeration: 1—MD5. 2—HMAC-SHA-1. 3—HMAC-SHA-256. 4—HMAC-SHA-384. 5—HMAC-SHA-512.	For the create, merge and replace operations, if the AuthMode is not configured and the AuthKey is configured, the AuthMode value is equivalently set to 1.
AuthKey	Key content	N/A	String. Length: 1 to 32 characters.	Plain text key calculated by using the MD5 algorithm for authentication.
Reliable	Whether the key is a trusted key.	N/A	Boolean: - true. - false (default).	For the delete and remove operations, if both the AuthMode and AuthKey are configured, the Reliable value will be deleted.

NTP/ Service

This table contains NTP service information.

XML structure

```
<NTP>
  <Service>
    <NTPEnable></NTPEnable>
    <SNTPEnable></SNTPEnable>
    <NTPAuthEnable></NTPAuthEnable>
    <SNTPAuthEnable></SNTPAuthEnable>
    <NTPSource></NTPSource>
  </Service>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Service
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPEnable	Whether to enable the NTP service.	N/A	Boolean: - true. - false (default).	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: - true. - false (default).	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: - true. - false (default).	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication function.	N/A	Boolean: - true. - false (default).	N/A
NTPSource	NTP source interface index	N/A	Unsigned integer	This column supports only Layer 3 interfaces.

NTP/ RefClocks

This table contains NTP reference clock information.

XML structure

```
<NTP>
  <RefClocks>
    <RefClock>
      <RefID></RefID>
      <Stratum></Stratum>
    </RefClock>
  </RefClocks>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	RefClocks
Table type	Multi-instance table
Row name	RefClock
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RefID	Reference Clock ID.	Index	String, dotted decimal notation.which is 127.127.1.u, where u is in the range of 0 to 3.	N/A
Stratum	Stratum level of the local clock.	N/A	Unsigned integer. Value range: 1 to 15.	A lower stratum level represents a higher clock accuracy.

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XML structure	2
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XML structure	4
Table description	4
Columns	4
NTP/ RefClocks	5
XML structure	5
Table description	5
Columns	5
NTP/ Status	5
XML structure	5
Table description	6
Columns	6

NTP

NTP/Clients

This table contains NTP clients information.

XML structure

```
<NTP>
  <Clients>
    <Client>
      <Service></Service>
      <VRF></VRF>
      <AddressType></AddressType>
      <IpAddress></IpAddress>
      <HostMode></HostMode>
      <IfIndex></IfIndex>
      <KeyID></KeyID>
      <Version></Version>
      <Priority></Priority>
    </Client>
  </Clients>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: 1—NTP. 2—SNTP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF	Index	String. Length: 0 to 31 characters.	It can be empty when it represents a public VRF instance.
AddressType	Address type.	Index	Enumeration: 1—IPv4 2—IPv6	IPv6 is not supported.
IpAddress	Remote IPv4 or IPv6 address.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1. IPv6 example: 1::1.
HostMode	Client mode	Index	Enumeration: 1—Symmetric active. 3—Client.	The symmetric active mode is supported only for NTP.
IfIndex	Source interface index.	N/A	Unsigned integer.	This column supports only Layer 3 interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
KeyID	Key ID	N/A	Unsigned integer. Value range: 1 to 4294967295.	This column specifies the key used for calculating the packet digest when the local end sends NTP messages to the peer.
Version	NTP version	N/A	Unsigned integer. Value range: 1 to 4.	This column is only available for IPv4 address entries, and not available for IPv6 address entries.
Priority	Whether the specified peer is the first choice under the same condition.	N/A	Boolean: - true. - false.	Priority true is supported only for NTP.

NTP/ AuthenticationKey

This table contains information about NTP authentication.

XML structure

```

<NTP>
  <AuthenticationKey>
    <Authentication>
      <Service></Service>
    
```

```

        <KeyID></KeyID>
        <AuthMode></AuthMode>          <AuthKey></AuthKey>          <Reliable></Reliable>
    </Authentication>
</AuthenticationKey>
</NTP>

```

Table description

Item	Description
Feature name	NTP
Table name	AuthenticationKey
Table type	Multi-instance table
Row name	Authentication
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Service type	Index	Enumeration: 1—NTP. 2—SNTP.	N/A
KeyID	Key ID	Index	Unsigned integer. Value range: 1 to 4294967295.	This column is used to identify an authentication key.
AuthMode	Authentication mode	N/A	Enumeration: 1—MD5. 2—HMAC-SHA-1. 3—HMAC-SHA-256. 4—HMAC-SHA-384. 5—HMAC-SHA-512.	For the create, merge and replace operations, if the AuthMode is not configured and the AuthKey is configured, the AuthMode value is equivalently set to 1.
AuthKey	Key content	N/A	String. Length: 1 to 32 characters.	Plain text key calculated by using the MD5 algorithm for authentication.
Reliable	Whether the key is a trusted key.	N/A	Boolean: - true. - false.	For the delete and remove operations, if both the AuthMode and AuthKey are configured, the Reliable value will be deleted.

NTP/ Service

This table contains NTP service information.

XML structure

```
<NTP>
  <Service>
    <NTPEnable></NTPEnable>
    <SNTPEnable></SNTPEnable>
    <NTPAuthEnable></NTPAuthEnable>
    <SNTPAuthEnable></SNTPAuthEnable>
    <NTPSource></NTPSource>
  </Service>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	Service
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPEnable	Whether to enable the NTP service.	N/A	Boolean: - true. - false.	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: - true. - false.	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: - true. - false.	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication function.	N/A	Boolean: - true. - false.	N/A
NTPSource	NTP source interface index.	N/A	Unsigned integer	This column supports only Layer 3 interfaces.

NTP/ RefClocks

This table contains NTP reference clock information.

XML structure

```
<NTP>
  <RefClocks>
    <RefClock>
      <RefID></RefID>
      <Stratum></Stratum>
    </RefClock>
  </RefClocks>
</NTP>
```

Table description

Item	Description
Feature name	NTP
Table name	RefClocks
Table type	Multi-instance table
Row name	RefClock
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RefID	Reference Clock ID.	Index	String, dotted decimal notation, which is 127.127.1.u, where u is in the range of 0 to 3.	N/A
Stratum	Stratum level of the local clock.	N/A	Unsigned integer. Value range: 1 to 15.	A lower stratum level represents a higher clock accuracy.

NTP/ Status

This table contains NTP status information.

XML structure

```
<NTP>
  <Status>
    <NTPSynchronized></NTPSynchronized>
```

```

    <SNTPSynchronized></SNTPSynchronized>
  </Status>
</NTP>

```

Table description

Item	Description
Feature name	NTP
Table name	Status
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NTPSynchron ized	Whether the NTP clock has been synchronized.	N/A	Boolean: • true. • false.	N/A
SNTPSynchro nized	Whether the SNTP clock has been synchronized	N/A	Boolean: • true. • false	N/A

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NVGRE

NVGRE/NVGREs

This table contains information about NVGRE configurations.

XML structure

```
<NVGRE>
  <NVGREs>
    <Nvgre>
      <NvgreID></NvgreID>
      <VsiName></VsiName>
    </Nvgre>
  </NVGREs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	NVGREs
Table type	Multi-instance table
Row name	Nvgre
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range: 4096-16777214.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create NVGREs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Can not be modified after creation

NVGRE/Tunnels

This table contains information about tunnels associated with NVGREs.

XML structure

```

<NVGRE>
  <Tunnels>
    <Tunnel>
      <NvgreID></NvgreID>
      <TunnelID></TunnelID>
    </Tunnel>
  </Tunnels>
</NVGRE>

```

Table description

Item	Description
Feature name	NVGRE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range:4096-16777214.	You must create an NVGRE first before you merge, replace or create tunnels.
TunnelID	Tunnel ID	Index	Unsigned integer.	You must create a tunnel first before you merge, replace or create tunnels

NVGRE/RmtMACs

This table contains information about remote MAC addresses of each NVGRE.

XML structure

```
<NVGRE>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
    </MAC>
  </RmtMACs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create MACs.
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value must be unicast address.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	You must create a tunnel first before you merge, replace or create MACs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove.

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Columns	4

NVGRE

NVGRE/Base

This table contains information about global NVGRE functions.

XML structure

```
<NVGRE>
  <Base>
    <NextNvgreID></NextNvgreID>
    <TotalNvgreNum></TotalNvgreNum>
  </Base>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NextNvgreID	Next useful NVGRE ID	N/A	Unsigned integer, Value range: 4096-16777214.	You must enable global L2VPN feature at first. The invalid value 4294967295 indicates that no ID can be set.
TotalNvgreNum	Total number of existing NVGRES	N/A	Unsigned integer	You must enable global L2VPN feature at first.

NVGRE/NVGRES

This table contains information about NVGRE configurations.

XML structure

```
<NVGRE>
```

```

<NVGRES>
  <Nvgre>
    <NvgreID></NvgreID>
    <VsiName></VsiName>
    <RmtMacCnt></RmtMacCnt>
  </Nvgre>
</NVGRES>
</NVGRE>

```

Table description

Item	Description
Feature name	NVGRE
Table name	NVGRES
Table type	Multi-instance table
Row name	Nvgre
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range: 4096-16777214.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A
RmtMacCnt	The count of remote MAC addresses	N/A	Unsigned integer	N/A

NVGRE/Tunnels

This table contains information about tunnels associated with NVGRES.

XML structure

```

<NVGRE>
  <Tunnels>
    <Tunnel>
      <NvgreID></NvgreID>
      <TunnelID></TunnelID>
      <Type></Type>
    </Tunnel>
  </Tunnels>

```

</NVGRE>

Table description

Item	Description
Feature name	NVGRE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NvgreID	NVGRE ID	Index	Unsigned integer, Value range:4096-16777214.	N/A
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
Type	Tunnel type	N/A	Enumeration: • 0—auto. • 1—manual.	N/A

NVGRE/RmtMACs

This table contains information about remote MAC addresses of each NVGRE.

XML structure

```
<NVGRE>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
      <Status></Status>
    </MAC>
  </RmtMACs>
</NVGRE>
```

Table description

Item	Description
Feature name	NVGRE
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enable global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
Status	Type of remote MAC address	N/A	Enumeration: • 0—other. • 1—static. • 2—selfLearned. • 3—protocolLearned.	1-static: Manually configured static unicast address 2- selfLearned: Dynamically learned unicast address 3- protocolLearned: Unicast address added by protocol.

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 - Columns2

OBJP

OBJP/ClearZoneStatistic

This table contains the operation information for an security zone pair object policy.

XML structure

```
<OBJP>
  <ClearZoneStatistic>
    <Zonepair>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ClearType></ClearType>
      <Clear></Clear>
    </Zonepair>
  </ClearZoneStatistic>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	ClearZoneStatistic
Table type	Multi-instance table
Row name	Zonepair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClearType	Type of statistics to be cleared.	N/A	Enumeration: 1—IPv4 statistics. 2—IPv6 statistics.	Optional. If you do not specify this column, both IPv4 and IPv6 statistics are cleared.

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears security zone pair object policy statistics.	N/A	This column must be empty.	Required.

OBJP/ClearAllStatistic

This table contains the operation information for all security zone pair object policies.

XML structure

```

<OBJP>
  <ClearAllStatistic>
    <ClearType></ClearType>
    <Clear></Clear>
  </ClearAllStatistic>
</OBJP>

```

Table description

Item	Description
Feature name	OBJP
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClearType	Type of statistics to be cleared.	N/A	Enumeration: 1—IPv4 statistics. 2—IPv6 statistics.	Optional. If you do not specify this column, both IPv4 and IPv6 statistics are cleared.
Clear	Clears security zone pair object policy statistics.	N/A	This column must be empty.	Required.

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OBJP/IPv6Rules	5
XML structure	5
Table description	5
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OBJP

OBJP/IPv4Policies

This table contains IPv4 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv4Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </Policy>
  </IPv4Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv4Rules

This table contains IPv4 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv4Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <InsID></InsID>
      <Action></Action>
      <SrcIPv4Group></SrcIPv4Group>
      <DestIPv4Group></DestIPv4Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <AppGrp></AppGrp>
      <App></App>
    </Rule>
  </IPv4Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID.
InsID	Inserts this rule before the rule identified by this ID	N/A	Unassigned integer. Value range: 0 to 65535.	When you create or modify a rule, this column determines the place for the rule. If you do not specify this column or set this column to 65535, the rule is put behind all rules. If you set this column to the ID of an existing rule, the rule is inserted before the specified rule. If you set this column to the ID of a nonexistent rule, the operation fails.
Action	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.	Required when you create a rule or modify a rule through the replace operation.
SrcIPv4Group	Name of the source IPv4 address object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
DestIPv4Group	Name of the destination IPv4 address object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
ServGroup	Name of the service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
VRF	VRF name	N/A	String, case sensitive. Length: 1 to 31 characters.	Optional.
TimeRange	Name of the time range	N/A	String, case insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Enable	Whether to enable the rule	N/A	Boolean: true—Enable (default). false—Disable.	Optional.
Log	Whether to enable logging	N/A	Boolean: true—Enable. false—Disable (default).	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to enable Counting	N/A	Boolean: true—Enable. false—Disable (default).	Optional.
Comment	Description	N/A	String. Length: 1 to 127 characters.	Optional.
AppGrp	Name of the application group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
App	Name of the application	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.

OBJP/IPv6Policies

This table contains IPv6 security zone pair object policy information.

XML structure

```

<OBJP>
  <IPv6Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </Policy>
  </IPv6Policies>
</OBJP>

```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

OBJP/IPv6Rules

This table contains IPv6 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv6Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <InsID></InsID>
      <Action></Action>
      <SrcIPv6Group></SrcIPv6Group>
      <DestIPv6Group></DestIPv6Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <AppGrp></AppGrp>
      <App></App>
    </Rule>
  </IPv6Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID.
InsID	Inserts this rule before the rule identified by this ID	N/A	Unassigned integer. Value range: 0 to 65535.	When you create or modify a rule, this column determines the place for the rule. If you do not specify this column or set this column to 65535, the rule is put behind all rules. If you set this column to the ID of an existing rule, the rule is inserted before the specified rule. If you set this column to the ID of a nonexistent rule, the operation fails.
Action	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.	Required when you create a rule or modify a rule through the replace operation.
SrcIPv6Group	Name of the source IPv6 address object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
DestIPv6Group	Name of the destination IPv6 address object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
ServGroup	Name of the service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Optional.
VRF	VRF name	N/A	String, case sensitive. Length: 1 to 31 characters.	Optional.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRange	Name of the time range	N/A	String, case insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Enable	Whether to enable the rule	N/A	Boolean: • true—Enable (default). • false—Disable.	Optional.
Log	Whether to enable logging	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
Counting	Whether to enable Counting	N/A	Boolean: • true—Enable. • false—Disable (default).	Optional.
Comment	Description	N/A	String. Length: 1 to 127 characters.	Optional.
AppGrp	Name of the application group	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.
App	Name of the application	N/A	String, case insensitive. Length: 1 to 63 characters.	Optional.

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OBJP/IPv6Policies	3
XML structure	4
Table description	4
Columns	4
OBJP/IPv6Rules	4
XML structure	4
Table description	5
Columns	5

OBJP

OBJP/IPv4Policies

This table contains IPv4 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv4Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <RuleNum></RuleNum>
    </Policy>
  </IPv4Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.
RuleNum	Number of rules	N/A	Unassigned integer.

OBJP/IPv4Rules

This table contains IPv4 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv4Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Action></Action>
      <SrcIPv4Group></SrcIPv4Group>
      <DestIPv4Group></DestIPv4Group>
      <ServGroup></ServGroup>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Comment></Comment>
      <Counting></Counting>
      <Count></Count>
      <AppGrp></AppGrp>
      <App></App>
    </Rule>
  </IPv4Rules>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String, case insensitive. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String, case insensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
Action	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.
SrcIPv4Group	Name of the source IPv4 address object group	N/A	String. Length: 1 to 31 characters.
DestIPv4Group	Name of the destination IPv4 address object group	N/A	String. Length: 1 to 31 characters.
ServGroup	Name of the service object group	N/A	String. Length: 1 to 31 characters.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.
TimeRange	Name of the time range	N/A	String. Length: 1 to 32 characters.
TimeRangeState	Status of the time range	N/A	Boolean: - true—Effective. - false—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: - true—Enabled. - false—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: - true—Enabled. - false—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: - true—Enabled. - false—Not enabled.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches	N/A	Unassigned integer. Value range: 0 to $2^{64}-1$.
AppGrp	Name of the application group	N/A	String. Length: 1 to 63 characters.
App	Name of the application	N/A	String. Length: 1 to 63 characters.

OBJP/IPv6Policies

This table contains IPv6 security zone pair object policy information.

XML structure

```
<OBJP>
  <IPv6Policies>
    <Policy>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <RuleNum></RuleNum>
    </Policy>
  </IPv6Policies>
</OBJP>
```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String. Length: 1 to 31 characters.
RuleNum	Number of rules	N/A	Unassigned integer.

OBJP/IPv6Rules

This table contains IPv6 security zone pair object policy rule information.

XML structure

```
<OBJP>
  <IPv6Rules>
    <Rule>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <ID></ID>
      <Action></Action>
    </Rule>
  </IPv6Rules>
</OBJP>
```

```

    <SrcIPv6Group></SrcIPv6Group>
    <DestIPv6Group></DestIPv6Group>
    <ServGroup></ServGroup>
    <VRF></VRF>
    <TimeRange></TimeRange>
    <TimeRangeState></TimeRangeState>
    <Enable></Enable>
    <Log></Log>
    <Counting></Counting>
    <Comment></Comment>
    <Count></Count>
    <AppGrp></AppGrp>
    <App></App>
  </Rule>
</IPv6Rules>
</OBJP>

```

Table description

Item	Description
Feature name	OBJP
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SrcZone	Name of the source zone	Index	String. Length: 1 to 31 characters.
DestZone	Name of the destination zone	Index	String. Length: 1 to 31 characters.
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
Action	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.
SrcIPv6Group	Name of the source IPv6 address object group	N/A	String. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
DestIPv6Group	Name of the destination IPv6 address object group	N/A	String. Length: 1 to 31 characters.
ServGroup	Name of the service object group	N/A	String. Length: 1 to 31 characters.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.
TimeRange	Name of the time range	N/A	String. Length: 1 to 32 characters.
TimeRangeState	Status of the time range	N/A	Boolean: true—Effective. false—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: true—Enabled. false—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: true—Enabled. false—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: true—Enabled. false—Not enabled.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches	N/A	Unassigned integer. Value range: 0 to $2^{64} - 1$.
AppGrp	Name of the application group	N/A	String. Length: 1 to 63 characters.
App	Name of the application	N/A	String. Length: 1 to 63 characters.

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OVS

OVS/RenameGroups

This table contains information about the rename object groups.

XML structure

```
<OVS>
  <RenameGroups>
    <Group>
      <Name></Name>
      <NewName></NewName>
      <Rename></Rename>
    </Group>
  </RenameGroups>
</OVS>
```

Table description

Item	Description
Feature name	OVS
Table name	RenameGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Object group name.	Index	String. Length: 1 to 31characters.	N/A
NewName	New object group name.	N/A	String. Length: 1 to 31characters.	Required.
Rename	Rename an object group.	N/A	This column must be empty.	Required.

Revision Record

Date	Revision Version	Change Description	Author
2014-12-01	V1.00	Initial	gaoyu 02383

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OVS

OVS/IPv4Groups

This table contains IPv4 address object group information.

XML structure

```
<OVS>
  <IPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <SecurityZone></SecurityZone>
    </Group>
  </IPv4Groups>
</OVS>
```

Table description

Item	Description
Feature name	OVS
Table name	IPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 31 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OVS/IPv4Objs

This table contains IPv4 address object information.

XML structure

```
<OMS>
  <IPv4Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
      <VRFName></VRFName>
    </Obj>
  </IPv4Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the IPv4 address object	N/A	Enumeration: 0—Nested group. 1—Subnet. 2—Range. 3—Host address. 4—Host name.	Required.
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	Required when the Type column is 1 . It must be configured together with the IPv4Mask column.
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	Required when the Type column is 1 . It must be configured together with the SubnetIPv4Address column.
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	Required when the Type column is 2 . It must be configured together with the EndIPv4Address column.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	Required when the Type column is 2 . It must be configured together with the StartIPv4Address column.
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	Required when the Type column is 3 .
HostName	Host name	N/A	String, case-insensitive. Length: 1 to 60 characters.	Required when the Type column is 4 .
NestedGroup	Name of the nested IPv4 address object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	Required when the Type column is 0 .
VRFName	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.

OMS/IPv6Groups

This table contains IPv6 address object group information.

XML structure

<OMS>


```

<IPv6Groups>
  <Group>
    <Name></Name>
    <Description></Description>
    <SecurityZone></SecurityZone>
  </Group>
</IPv6Groups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 31 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OMS/IPv6Objs

This table contains IPv6 address object information.

XML structure

```

<OMS>
  <IPv6Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
    </Obj>
  </IPv6Objs>
</OMS>

```

```

    <IPv6PrefixLen></IPv6PrefixLen>
    <StartIPv6Address></StartIPv6Address>
    <EndIPv6Address></EndIPv6Address>
    <HostIPv6Address></HostIPv6Address>
    <HostName></HostName>
    <NestedGroup></NestedGroup>
  </Obj>
</IPv6Objs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the IPv6 address object	N/A	Enumeration: 0—Nested group. 1—Subnet. 2—Range. 3—Host address. 4—Host name.	Required.
SubnetIPv6Address	IPv6 subnet address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the Type column is 1 . It must be configured together with the IPv6PrefixLen column.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6PrefixLen	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128.	Required when Subnet the Type column is 1 . It must be configured together with the SubnetIPv6Address column.
StartIPv6Address	Start IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the Type column is 2 . It must be configured together with the EndIPv6Address column.
EndIPv6Address	End IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the Type column is 2 . It must be configured together with the StartIPv6Address column.
HostIPv6Address	IPv6 address of the host	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Required when the Type column is 3 .
HostName	Host name	N/A	String. Length: 1 to 60 characters.	Required when the Type column is 4 .
NestedGroup	Name of the nested IPv6 address object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Required when the Type column is 0 .

OMS/ServGroups

This table contains service object group information.

XML structure

```

<OMS>
  <ServGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </ServGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	ServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the service object group	Index	String, case insensitive. Length: 1 to 31 characters.
Description	Description for the service object group	N/A	String. Length: 1 to 127 characters.

OMS/ServObjs

This table contains service object information.

XML structure

```
<OMS>
  <ServObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
      <EndSrcPort></EndSrcPort>
      <StartDestPort></StartDestPort>
      <EndDestPort></EndDestPort>
      <ICMPType></ICMPType>
      <ICMPCode></ICMPCode>
      <NestedGroup></NestedGroup>
    </Obj>
  </ServObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	ServObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the service object group	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the service object	N/A	Enumeration: • 0—Nested group. • 1—Protocol. This type specifies protocols other than the listed ones. • 2—ICMP (protocol number 1). • 3—TCP (protocol number 6). • 4—UDP (protocol number 17). • 5—ICMPv6 (protocol number 58).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	Required when the Type column is 1 .
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 3 or 4 . It must be configured together with the EndSrcPort column.
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 3 or 4 . It must be configured together with the StartSrcPort column.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 3 or 4 . It must be configured together with the EndDestPort column.
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 3 or 4 . It must be configured together with the StartDestPort column.
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the Type column is 2 or 5 . It must be configured together with the ICMPCode column.
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	Required when the Type column is 2 or 5 . It must be configured together with the ICMPType column.
NestedGroup	Name of the nested service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Required when the Type column is 0 .

OMS/PortGroups

This table contains port object group information.

XML structure

```

<OMS>
  <PortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </PortGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	PortGroups
Table type	Multi-instance table
Row name	Group

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the port object group	Index	String, case insensitive. Length: 1 to 31 characters.
Description	Description for the port object group	N/A	String. Length: 1 to 127 characters.

OMS/PortObjs

This table contains port object information.

XML structure

```

<OMS>
  <PortObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <NestedGroup></NestedGroup>
    </Obj>
  </PortObjs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	PortObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the port object group	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the port object	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object an ID.
Type	Type of the port object	N/A	Enumeration: 0—Nested group. 1—Range.	Required.
StartPort	Start port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 1 . It must be configured together with the EndPort column.
EndPort	End port number	N/A	Unsigned integer. Value range: 0 to 65535.	Required when the Type column is 1 . It must be configured together with the StartPort column.
NestedGroup	Name of the nested port object group	N/A	String, case insensitive. Length: 1 to 31 characters.	Required when the Type column is 0 .

OMS/MACGroups

This table contains MAC object group information.

XML structure

```

<OMS>
  <MACGroups>
    <Group>
      <Name></Name>
      <Description></Description>
    </Group>
  </MACGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS

Item	Description
Table name	MACGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String, case-insensitive. Length: 1 to 31 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.

OMS/MACObjs

This table contains MAC object information.

XML structure

```

<OMS>
  <MACObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <MACAddress></MACAddress>
      <NestedGroup></NestedGroup>
    </Obj>
  </MACObjs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	MACObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the MAC object group.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the MAC object.	Index	Unsigned integer. Value range: 0 to 4294967295.	When you create an object with the ID 4294967295, the system automatically assigns the object ID.
Type	Type of the MAC object.	N/A	Enumeration: 0—Nested group. 1—MAC address.	Required.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0. Required when the Type column is 1 .
NestedGroup	Name of the nested MAC object group.	N/A	String, case-insensitive. Length: 1 to 31 characters.	Required when the Type column is 0 .

Revision Record

Date	Revision Version	Change Description	Author
2014-12-01	V1.00	Initial	gaoyu 02383

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OMS

OMS/IPv4Groups

This table contains information about IPv4 address object groups.

XML structure

```
<OMS>
  <IPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
    </Group>
  </IPv4Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv4 address object group	Index	String. Length: 1 to 31 characters.
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of IPv4 address objects	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
InUse	Whether the IPv4 address object group is in use.	N/A	Boolean: true—The IPv4 address object group is in use. false—The IPv4 address object group is not in use.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OMS/SysIPv4Groups

This table contains information about pre-defined IPv4 address object groups.

XML structure

```

<OMS>
  <SysIPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysIPv4Groups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	SysIPv4Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined IPv4 address object group	Index	String. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions
Description	Description for the pre-defined IPv4 address object group	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined IPv4 address objects	N/A	Unsigned integer.
InUse	Whether the pre-defined IPv4 address object group is in use.	N/A	Boolean: true—The pre-defined IPv4 address object group is in use. false—The pre-defined IPv4 address object group is not in use.

OMS/IPv4Objs

This table contains information about IPv4 address objects.

XML structure

```

<OMS>
  <IPv4Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
      <VRFName></VRFName>
    </Obj>
  </IPv4Objs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv4 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 3 .
HostName	Host name	N/A	String, case-insensitive. Length: 1 to 60 characters.	The value of this column is valid if Type is 4 .
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .
VRFName	VPN instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Valid only when the Type column is 4 and the HostName column is specified.

OMS/IPv6Groups

This table contains information about IPv6 address object groups.

XML structure

```
<OMS>
  <IPv6Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
    </Group>
  </IPv6Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the IPv6 address object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the IPv6 address object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of IPv6 address objects.	N/A	Unsigned integer.
InUse	Whether the IPv6 address object group is in use.	N/A	Boolean: • true—The IPv6 address object group is in use. • false—The IPv6 address object group is not in use.
SecurityZone	Security zone name	N/A	String, Case-insensitive and contains no midline(-). Length: 1 to 31 characters.

OMS/SysIPv6Groups

This table contains information about pre-defined IPv6 address object groups.

XML structure

```
<OMS>
  <SysIPv6Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysIPv6Groups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysIPv6Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined IPv6 address object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the pre-defined IPv6 address object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined IPv6 address objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined IPv6 address object group is in use.	N/A	Boolean: true—The pre-defined IPv6 address object group is in use. false—The pre-defined IPv6 address object group is not in use.

OMS/IPv6Objs

This table contains IPv6 address object information.

XML structure

```
<OMS>
  <IPv6Objs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
      <IPv6PrefixLen></IPv6PrefixLen>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
      <HostIPv6Address></HostIPv6Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
    </Obj>
  </IPv6Objs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Objs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 31 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 1 to 4294967294.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the IPv6 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name.	Required.
SubnetIPv6Addresses	IPv6 subnet address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is 1 .
IPv6PrefixLen	Length of the IPv6 prefix	N/A	Unsigned integer. Value range: 1 to 128	The value of this column is valid if Type is 1 .
StartIPv6Address	Start IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is 2 .
EndIPv6Address	End IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is 2 .
HostIPv6Address	IPv6 address of the host	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. The value of this column is valid if Type is 3 .
HostName	Host name	N/A	String. Length: 1 to 60 characters.	The value of this column is valid if Type is 4 .
NestedGroup	Name of the nested IPv6 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .

OMS/ServGroups

This table contains information about service object groups.

XML structure

```

<OMS>
  <ServGroups>
    <Group>
      <Name></Name>

```

```

    <Description></Description>
    <ObjNum></ObjNum>
    <InUse></InUse>
  </Group>
</ServGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	ServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the service object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the service object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of service objects.	N/A	Unsigned integer.
InUse	Whether the service object group is in use.	N/A	Boolean: true—The service object group is in use. false—The service object group is not in use.

OMS/SysServGroups

This table contains information about pre-defined service object groups.

XML structure

```

<OMS>
  <SysServGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysServGroups>
</OMS>

```

```

    </Group>
  </SysServGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	SysServGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined service object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the pre-defined service object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined service objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined system service object group is in use.	N/A	Boolean: true—The pre-defined system service object group is in use. false—The pre-defined system service object group is not in use.

OMS/ServObjs

This table contains information about service objects.

XML structure

```

<OMS>
  <ServObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <Protocol></Protocol>
      <StartSrcPort></StartSrcPort>
    </Obj>
  </ServObjs>
</OMS>

```

```

    <EndSrcPort></EndSrcPort>
    <StartDestPort></StartDestPort>
    <EndDestPort></EndDestPort>
    <ICMPType></ICMPType>
    <ICMPCode></ICMPCode>
    <NestedGroup></NestedGroup>
  </Obj>
</ServObjs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	ServObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the service object group	Index	String. Length: 1 to 31 characters.	N/A
ID	ID of the service object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the service object	N/A	Enumeration: • 0—Nested group. • 1—Protocol. This type specifies protocols other than the listed ones. • 2—ICMP (protocol number 1). • 3—TCP (protocol number 6). • 4—UDP (protocol number 17). • 5—ICMPv6 (protocol number 58).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is 1 .
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .

Column name	Column description	Column type	Data type and restrictions	Remarks
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
ICMPType	Type of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is 2 or 5 .
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is 2 or 5 .
NestedGroup	Name of the nested service object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .

OMS/PortGroups

This table contains information about port object groups.

XML structure

```

<OMS>
  <PortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </PortGroups>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	PortGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the port object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the port object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of port objects.	N/A	Unsigned integer.
InUse	Whether the port object group is in use.	N/A	Boolean: • true—The port object group is in use. • false—The port object group is not in use.

OMS/SysPortGroups

This table contains pre-defined port object group information.

XML structure

```
<OMS>
  <SysPortGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </SysPortGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	SysPortGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the pre-defined port object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the pre-defined port object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of pre-defined port objects.	N/A	Unsigned integer.
InUse	Whether the pre-defined port object group is in use.	N/A	Boolean: • true—The pre-defined port object group is in use. • false—The pre-defined port object group is not in use.

OMS/PortObjs

This table contains information about port objects.

XML structure

```
<OMS>
  <PortObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <StartPort></StartPort>
      <EndPort></EndPort>
      <NestedGroup></NestedGroup>
    </Obj>
  </PortObjs>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	PortObjs
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the port object group	Index	String. Length: 1 to 31 characters.	N/A
ID	ID of the port group object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the port object	N/A	Enumeration: • 0—Nested group. • 1—Range.	Required.
StartPort	Start port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 1 .
EndPort	End port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 1 .
NestedGroup	Name of the nested port object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .

OMS/MACGroups

This table contains information about MAC object groups.

XML structure

```
<OMS>
  <MACGroups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
    </Group>
  </MACGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	MACGroups
Table type	Multi-instance table

Item	Description
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of MAC objects.	N/A	Unsigned integer.
InUse	Whether the MAC object group is in use.	N/A	Boolean: true—The MAC object group is in use. false—The MAC object group is not in use.

OMS/MACObjs

This table contains information about MAC objects.

XML structure

```

<OMS>
  <MACObjs>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <MACAddress></MACAddress>
      <NestedGroup></NestedGroup>
    </Obj>
  </MACObjs>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	MACObjs
Table type	Multi-instance table
Row name	Obj

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Group	Name of the MAC object group.	Index	String. Length: 1 to 31 characters.
ID	ID of the MAC object.	Index	Unsigned integer. Value range: 0 to 4294967294.
Type	Type of the MAC object.	N/A	Enumeration: • 0—Nested group. • 1—MAC address.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.
NestedGroup	Name of the nested MAC object group.	N/A	String. Length: 1 to 31 characters.

OMS/MAC Paging

This table contains information about MAC object groups and MAC objects. This table is made for paging.

XML structure

```

<OMS>
  <MACPaging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <MACAddress></MACAddress>
        <NestedGroup></NestedGroup>
      </ObjList>
      <AllGroupsCount></AllGroupsCount>
    </Group>
  </MACPaging>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	MACPaging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the MAC object group.	Index	String. Length: 1 to 31 characters.
Description	Description for the MAC object group.	N/A	String. Length: 1 to 127 characters.
ObjNum	Number of MAC objects.	N/A	Unsigned integer.
InUse	Whether the MAC object group is in use.	N/A	Boolean: • true—The MAC object group is in use. • false—The MAC object group is not in use.
ObjList	List of MAC objects.	Data structure	Members include: • ID. • Type • MACAddress • NestedGroup
ID	ID of the MAC object.	N/A	Unsigned integer. Value range: 0 to 4294967294.
Type	Type of the MAC object.	N/A	Enumeration: • 0—Nested group. • 1—MAC address.
MACAddress	MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.
NestedGroup	Name of the nested MAC object group.	N/A	String. Length: 1 to 31 characters.
AllGroupsCount	Number of MAC object groups.	N/A	Unsigned integer.

OMS/IPv4Paging

This table contains information about IPv4 address object groups, IPv4 address objects, and excluded IPv4 addresses.

XML structure

```
<OMS>
  <IPv4Paging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <SubnetIPv4Address></SubnetIPv4Address>
        <IPv4Mask></IPv4Mask>
        <IPv4WildcardAddress></IPv4WildcardAddress>
        <IPv4WildcardMask></IPv4WildcardMask>
        <StartIPv4Address></StartIPv4Address>
        <EndIPv4Address></EndIPv4Address>
        <HostIPv4Address></HostIPv4Address>
        <HostName></HostName>
        <NestedGroup></NestedGroup>
        <User></User>
        <UserDomain></UserDomain>
        <UserGroup></UserGroup>
        <UserGroupDomain></UserGroupDomain>
        <ExcludeIPv4Address></ExcludeIPv4Address>
      </ObjList>
      <AllGroupsCount></AllGroupsCount>
    </Group>
  </IPv4Paging>
</OMS>
```

Table description

Item	Description
Feature name	OMS
Table name	IPv4Paging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPv4 address object group	Index	String. Length: 1 to 31 characters.	N/A
Description	Description for the IPv4 address object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of IPv4 address objects	N/A	Unsigned integer.	N/A
InUse	Whether the IPv4 address object group is in use	N/A	Boolean: true—The IPv4 address object group is in use. false—The IPv4 address object group is not in use.	N/A
SecurityZone	Security zone of the IPv4 address object group	N/A	String. Length: 1 to 31 characters.	N/A
ObjList	List of IPv4 address objects	Data structure	Members include: - ID. - Type. - SubnetIPv4Address. - IPv4Mask. - IPv4WildcardAddress. - IPv4WildcardMask. - StartIPv4Address. - EndIPv4Address. - HostIPv4Address. - HostName. - NestedGroup. - User. - UserDomain. - UserGroup. - UserGroupDomain. - ExcludeIPv4Address.	N/A
ID	ID of the IPv4 address object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of the IPv4 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User group. • 7—Wildcard.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 7 .
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 7 .
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 3 .
HostName	Host name	N/A	String. Length: 1 to 60 characters.	The value of this column is valid if Type is 4 .
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .
User	Name of the user	N/A	String. Length: 1 to 55 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	N/A
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	N/A
ExcludeIPv4Address	Excluded IPv4 address.	N/A	String, dotted decimal notation.	N/A
AllGroupsCount	Number of IPv4 address groups	N/A	Unsigned integer.	N/A

OMS/IPv6Paging

This table contains information about IPv6 address object groups, IPv6 address objects, and excluded IPv6 addresses.

XML structure

```

<OMS>
  <IPv6Paging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <SecurityZone></SecurityZone>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <SubnetIPv6Address></SubnetIPv6Address>
        <IPv6PrefixLen></IPv6PrefixLen>
        <StartIPv6Address></StartIPv6Address>
        <EndIPv6Address></EndIPv6Address>
        <HostIPv6Address></HostIPv6Address>
        <HostName></HostName>
        <NestedGroup></NestedGroup>
        <User></User>
        <UserDomain></UserDomain>
        <UserGroup></UserGroup>
        <UserGroupDomain></UserGroupDomain>
        <ExcludeIPv6Address></ExcludeIPv6Address>
      </ObjList>
    </Group>
  </IPv6Paging>
</OMS>

```

```

    </Group>
  </IPv6Paging>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	IPv6Paging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the IPv6 address object group	Index	String. Length: 1 to 31 characters.	N/A
Description	Description for the IPv6 address object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of IPv6 address objects	N/A	Unsigned integer.	N/A
InUse	Whether the IPv6 address object group is in use	N/A	Boolean: true—The IPv6 address object group is in use. false—The IPv6 address object group is not in use.	N/A
SecurityZone	Security zone of the IPv6 address object group	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjList	List of IPv6 address objects	Data structure	Members include: • ID. • Type. • SubnetIPv6Address. • IPv6PrefixLen.. • StartIPv6Address. • EndIPv6Address. • HostIPv6Address. • HostName. • NestedGroup. • User. • UserDomain. • UserGroup. • UserGroupDomain. • ExcludeIPv6Address.	N/A
ID	ID of the IPv6 address object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv6 address object	N/A	Enumeration: • 0—Nested group. • 1—Subnet. • 2—Range. • 3—Host address. • 4—Host name. • 5—User. • 6—User Group.	N/A
SubnetIPv6Address	IPv6 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv6PrefixLen	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	The value of this column is valid if Type is 1 .
StartIPv6Address	Start IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
EndIPv6Address	End IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2 .
HostIPv6Address	IPv6 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is

Column name	Column description	Column type	Data type and restrictions	Remarks
				3.
HostName	Host name	N/A	String. Length: 1 to 60 characters.	The value of this column is valid if Type is 4.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0.
User	Name of the user	N/A	String. Length: 1 to 55 characters.	N/A
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	N/A
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	N/A
ExcludeIPv6Address	Excluded IPv6 address	N/A	String, dotted decimal notation.	N/A
AllGroupsCount	Number of IPv6 address groups	N/A	Unsigned integer.	N/A

OMS/ServicePaging

This table contains information about service object groups and service objects.

XML structure

```

<OMS>
  <ServicePaging>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <ServiceType></ServiceType>
      <ObjList>
        <ID></ID>
        <Type></Type>
        <Protocol></Protocol>
        <StartSrcPort></StartSrcPort>
        <EndSrcPort></EndSrcPort>
        <StartDestPort></StartDestPort>
        <EndDestPort></EndDestPort>
      </ObjList>
    </Group>
  </ServicePaging>
</OMS>

```

```

    <ICMPType></ICMPType>
    <ICMPCode></ICMPCode>
    <NestedGroup></NestedGroup>
  </ObjList>
  <AllGroupsCount></AllGroupsCount>
</Group>
</ServicePaging>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	ServicePaging
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the service object group	Index	String. Length: 1 to 31 characters.	N/A
Description	Description for the service object group	N/A	String. Length: 1 to 127 characters.	N/A
ObjNum	Number of service objects	N/A	Unsigned integer.	N/A
InUse	Whether the service object group is in use	N/A	Boolean: true—The service object group is in use. false—The service object group is not in use.	N/A
ServiceType	Type of the service object group	N/A	Enumeration: 0—System defined service object group. 1—User defined service object group.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ObjList	List of service objects	Data structure	Members include: - ID. - Type. - Protocol. - StartSrcPort.. - EndSrcPort. - StartDestPort. - EndDestPort. - ICMPType. - ICMPCode. - NestedGroup.	N/A
ID	ID of the service object	N/A	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the service object	N/A	Enumeration: 0—Nested group. 1—Protocol. This type specifies protocols other than the listed ones. 2—ICMP (protocol number 1). 3—TCP (protocol number 6). 4—UDP (protocol number 17). 5—ICMPv6 (protocol number 58).	Required.
Protocol	Protocol number	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is 1 .
StartSrcPort	Start source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
EndSrcPort	End source port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
StartDestPort	Start destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
EndDestPort	End destination port number	N/A	Unsigned integer. Value range: 0 to 65535.	The value of this column is valid if Type is 3 or 4 .
ICMPType	Type of the ICMP	N/A	Unsigned integer.	The value of

Column name	Column description	Column type	Data type and restrictions	Remarks
	message		Value range: 0 to 255.	this column is valid if Type is 2 or 5 .
ICMPCode	Code of the ICMP message	N/A	Unsigned integer. Value range: 0 to 255.	The value of this column is valid if Type is 2 or 5 .
NestedGroup	Name of the nested service object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0 .
AllGroupsCount	Number of service groups	N/A	Unsigned integer.	N/A

OMS/GetIPv4ObjData

This table contains information about IPv4 address object groups, IPv4 address objects, and excluded IPv4 addresses.

XML structure

```

<OMS>
  <GetIPv4ObjData>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv4Address></SubnetIPv4Address>
      <IPv4Mask></IPv4Mask>
      <IPv4WildcardAddress></IPv4WildcardAddress>
      <IPv4WildcardMask></IPv4WildcardMask>
      <StartIPv4Address></StartIPv4Address>
      <EndIPv4Address></EndIPv4Address>
      <HostIPv4Address></HostIPv4Address>
      <HostName></HostName>
      <NestedGroup></NestedGroup>
      <User></User>
      <UserDomain></UserDomain>
      <UserGroup></UserGroup>
      <UserGroupDomain></UserGroupDomain>
      <ExcludeIPv4Address></ExcludeIPv4Address>
    </Obj>
  </GetIPv4ObjData>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	GetIPv4ObjData
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv4 address object group	Index	String. Length: 1 to 31 characters.	N/A
ID	ID of the IPv4 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv4 address object	N/A	Enumeration: 0—Nested group. 1—Subnet. 2—Range. 3—Host address. 4—Host name. 5—User. 6—User group. 7—Wildcard.	N/A
SubnetIPv4Address	IPv4 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv4Mask	IPv4 subnet mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv4WildcardAddress	IPv4 wildcard address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 7 .
IPv4WildcardMask	IPv4 wildcard mask	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 7 .
StartIPv4Address	Start IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is

Column name	Column description	Column type	Data type and restrictions	Remarks
				2.
EndIPv4Address	End IPv4 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2.
HostIPv4Address	IPv4 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 3.
HostName	Host name	N/A	String. Length: 1 to 60 characters.	The value of this column is valid if Type is 4.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0.
User	Name of the user	N/A	String. Length: 1 to 55 characters.	N/A
UserDomain	Name of the user domain	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	Name of the user group	N/A	String. Length: 1 to 32 characters.	N/A
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	N/A
ExcludeIPv4Address	Excluded IPv4 address	N/A	String, dotted decimal notation.	N/A

OMS/GetIPv6ObjData

This table contains information about IPv6 address object groups, IPv6 address objects, and excluded IPv6 addresses.

XML structure

```

<OMS>
  <GetIPv6ObjData>
    <Obj>
      <Group></Group>
      <ID></ID>
      <Type></Type>
      <SubnetIPv6Address></SubnetIPv6Address>
      <IPv6PrefixLen></IPv6PrefixLen>
      <StartIPv6Address></StartIPv6Address>
      <EndIPv6Address></EndIPv6Address>
    </Obj>
  </GetIPv6ObjData>
</OMS>

```

```

    <HostIPv6Address></HostIPv6Address>
    <HostName></HostName>
    <NestedGroup></NestedGroup>
    <User></User>
    <UserDomain></UserDomain>
    <UserGroup></UserGroup>
    <UserGroupDomain></UserGroupDomain>
    <ExcludeIPv6Address></ExcludeIPv6Address>
  </Obj>
</GetIPv6ObjData>
</OMS>

```

Table description

Item	Description
Feature name	OMS
Table name	GetIPv6ObjData
Table type	Multi-instance table
Row name	Obj
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Name of the IPv6 address object group	Index	String. Length: 1 to 31 characters.	N/A
ID	ID of the IPv6 address object	Index	Unsigned integer. Value range: 0 to 4294967294.	N/A
Type	Type of the IPv6 address object	N/A	Enumeration: 0—Nested group. 1—Subnet. 2—Range. 3—Host address. 4—Host name. 5—User. 6—User Group.	N/A
SubnetIPv6Address	IPv6 subnet address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 1 .
IPv6PrefixLen	IPv6 prefix length	N/A	Unsigned integer. Value range: 1 to 128.	The value of this column is valid if Type is

Column name	Column description	Column type	Data type and restrictions	Remarks
				1.
StartIPv6Address	Start IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2.
EndIPv6Address	End IPv6 address	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 2.
HostIPv6Address	IPv6 address of the host	N/A	String, dotted decimal notation.	The value of this column is valid if Type is 3.
HostName	Host name	N/A	String. Length: 1 to 60 characters.	The value of this column is valid if Type is 4.
NestedGroup	Name of the nested IPv4 address object group	N/A	String. Length: 1 to 31 characters.	The value of this column is valid if Type is 0.
User	Name of the user.	N/A	String. Length: 1 to 55 characters.	N/A
UserDomain	Name of the user domain.	N/A	String. Length: 1 to 255 characters.	N/A
UserGroup	Name of the user group.	N/A	String. Length: 1 to 32 characters.	N/A
UserGroupDomain	Name of the user group domain	N/A	String. Length: 1 to 255 characters.	N/A
ExcludeIPv6Address	Excluded IPv6 address.	N/A	String, dotted decimal notation.	N/A

Revision Record

Date	Revision Version	Change Description	Author
2015-04-27	V1.00	Initial	Liuzhongxin

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OFP

OFP/RefreshIpFlow

This table is used to refresh ip flow table of an OFP instance.

XML structure

```
<OFP>
  <RefreshIpFlow>
    <Application>
      <InstanceID></InstanceID>
      <Refresh></Refresh>
    </Application>
  </RefreshIpFlow>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	RefreshIpFlow
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 4094.	You must specify this column.
Refresh	Refresh IP flow table	N/A	This column must be empty	Required.

OFP/Packet

This table is used to send packet-out messages.

XML structure

```
<OFP>
  <Packet>
```



```

<Application>
  <InstanceID></InstanceID>
  <Value></Value>
  <EnableLocalFlow></EnableLocalFlow>
  <Packetout></Packetout>
</Application>
</Packet>
</OFP>

```

Table description

Item	Description
Feature name	OFP
Table name	Packet
Table type	Multi-instance table
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1 to 4094.	You must specify this column.
Value	Values that need to be matched	N/A	Unsigned integer. Value range: 1 to 8388606.	Required.
EnableLocalFlow	Enable local table entry	N/A	Boolean: true—Yes. false—No (default).	Required.
Packetout	Packet-out message	N/A	Base64 binary. Value range: 1 to 255.	Requires an existing instance and existing local table entries.

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OFP

OFP/LogicalSwitches

This table contains information about OpenFlow instance.

XML structure

```
<OFP>
  <LogicalSwitches>
    <LogicalSwitch>
      <InstanceID></InstanceID>
      <Description></Description>
      <DatapathID></DatapathID>
      <Enable></Enable>
      <Capabilities>
        <MaxEntries></MaxEntries>
        <DynamicMacAware></DynamicMacAware>
        <MacLearning></MacLearning>
        <TableMissDefaultPermit></TableMissDefaultPermit>
        <ForbiddenPort></ForbiddenPort>
        <PermitPort></PermitPort>
        <DynamicArpPre></DynamicArpPre>
        <TcpNsr></TcpNsr>
      </Capabilities>
      <Resources>
        <ClassificationType></ClassificationType>
        <ClassificationVLAN></ClassificationVLAN>
        <ClassificationVLANMask></ClassificationVLANMask>
        <ClassificationVLANLoosen></ClassificationVLANLoosen>
        <InbandManagementVLANList></InbandManagementVLANList>
        <MACIPTableIDList></MACIPTableIDList>
        <ExtensibilityFlowTableIDList></ExtensibilityFlowTableIDList>
      </Resources>
      <ConnectionCfg>
        <ConnectionMode></ConnectionMode>
        <ConnectionInterval></ConnectionInterval>
        <EchoInterval></EchoInterval>
        <LostConnectionBehavior></LostConnectionBehavior>
        <TcpDscp></TcpDscp>
        <ForbiddenPktInArpCtrl></ForbiddenPktInArpCtrl>
      </ConnectionCfg>
    </LogicalSwitch>
  </LogicalSwitches>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	LogicalSwitches
Table type	Multi-instance table
Row name	LogicalSwitch
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1-4094.
Description	Description of instance	N/A	String. Length: 1 to 255 characters. Default is empty.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. Value range: 1 to $2^{64}-1$. Default: Instance ID for high 16 bits, Bridge MAC for low 48 bits.
Enable	Enable status of instance	N/A	Boolean: true—Yes. false—No(Default).
Capabilities	Capabilities of instance	Data structure	Members include: - MaxEntries. - DynamicMacAware. - MacLearning. - TableMissDefaultPermit. - ForbiddenPort. - PermitPort. - DynamicArpPre. - TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. Value range: Depends on device type. Default value depends on device type.
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: true—Yes. false—No(Default).
MacLearning	Enable mac learning in instance	N/A	Boolean: true—Yes(Default). false—No.

Column name	Column description	Column type	Data type and restrictions
TableMissDefaultPermit	Assign "Permit" as the default table miss action of instance	N/A	Boolean: true—Yes. false—No(Default).
ForbiddenPort	Port type to be forbidden reporting port status to controller	N/A	Unsigned integer. 1st bit for VLAN interface. 2nd bit for VSI interface. 3rd bit for ROUTE interface. Default is 0.
PermitPort	Permit reporting ports of specific type	N/A	Unsigned integer. 1st bit for LAGG interface. Default is 0.
DynamicArpPre	Dynamic ARP will replace the conflicting openflow ARP	N/A	Boolean: true—Yes. false—No(Default).
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: true—Yes(Default). false—No.
Resources	Resources of instance	Data structure	Members include: - ClassificationType. - ClassificationVLAN. - ClassificationVLANMask. - ClassificationVLANLoosen. - InbandManagementVLANList. - MACIPTableIDList. - ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: 1—VLANMask. 2—Global. Default is not configured.
ClassificationVLAN	VLAN value when the type of classification is VLANMask	N/A	Unsigned integer. Value range: 1-4094. Default is not configured. Classification VLAN can be configured only when the value of classification type is VLANMASK.
ClassificationVLANMask	VLAN mask value when the type of classification is VLANMask	N/A	Unsigned integer. Value range: 0-4095. Default is not configured. Classification VLAN mask can be configured only when the value of classification type is VLANMASK.
ClassificationVLANLoosen	Loosen mode when the type of classification is VLANMask	N/A	Boolean: true—Yes. false—No(Default).

Column name	Column description	Column type	Data type and restrictions
InbandManagementVLANList	In band management VLAN list of the instance	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters. Default is not configured.
MACIPTableIDList	MAC-IP table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters. Default is not configured.
ExtensibilityFlowTableIDList	Extensibility table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters. Default is 0.
ConnectionCfg	Configuration of connection in instance	Data structure	Members include: - ConnectionMode. - ConnectionInterval. - EchoInterval. - LostConnectionBehavior. - TcpDscp. - ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: 0—Parallel(Default). 1—Serially.
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. Value range: 10-120. Default is 60.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. Value range: 1-10. Default is 5.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: 1—Standalone. 2—Secure. 4—Smart Default is secure mode.

Column name	Column description	Column type	Data type and restrictions
TcpDscp	Set the DSCP value for OpenFlow messages in an OpenFlow instance	N/A	Unsigned integer. • Value range: 0-63. Default is 10.
ForbiddenPktInArpCtrl	Specify controllers to which ARP packets are forbidden to be sent	N/A	Unsigned integer64. 1st bit for controller 0. 2nd bit for controller 1. 3rd bit for controller 2. 63rd bit for controller 62. 64th bit for controller 63. Default is 0.

OFP/Controller

This table contains information about OpenFlow controllers.

XML structure

```

<OFP>
  <Controllers>
    <Controller>
      <InstanceID></InstanceID>
      <ControllerID></ControllerID>
      <IPv4Address></IPv4Address>
      <IPv6Address></IPv6Address>
      <Port></Port>
      <LocalIPv4Address></LocalIPv4Address>
      <LocalIPv6Address></LocalIPv6Address>
      <LocalPort></LocalPort>
      <Protocol></Protocol>
      <VRF></VRF>
      <SSLPolicy></SSLPolicy>
    </Controller>
  </Controllers>
</OFP>

```

Table description

Item	Description
Feature name	OFP
Table name	Controllers
Table type	Multi-instance table

Item	Description
Row name	Controller
Restrictions	Row creation is allowed only when the instance exists.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • Value range: 1-4094.
ControllerID	Controller ID	Index	Unsigned integer. Value range: 0-63.
IPv4Address	Controller's IPv4 address	N/A	String, dotted decimal notation. Default is not configured.
IPv6Address	Controller's IPv6 address	N/A	String, semicolon hex notation. Default is not configured.
Port	Controller's port	N/A	Unsigned integer. • Value range: 1-65535. Default is 6633.
LocalIPv4Address	Local IPv4 address for connection with controller	N/A	String, dotted decimal notation. Default is not configured.
LocalIPv6Address	Local IPv6 address for connection with controller	N/A	String, semicolon hex notation. Default is not configured.
LocalPort	Local port for connection with controller	N/A	Unsigned integer. • Value range: 1-65535. Default is not configured.
Protocol	Protocol used for connection with controller	N/A	Enumeration: • 1 —TCP(Default). • 2 —SSL
VRF	VRF name for VPN connection with controller	N/A	String. Length: 1 to 31 characters. Default is not configured.
SSLPolicy	SSL policy name for SSL connection with controller	N/A	String, case insensitive. Length: 1 to 31 characters. Default is not configured. SSL policy can be configured only when the value of protocol is SSL.

OFP/GlobalConfigurations

This table contains information about OpenFlow global configurations.

XML structure

```
<OFP>
  <GlobalConfigurations>
    <NormalForwardVLANList></NormalForwardVLANList>
  </GlobalConfigurations>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	GlobalConfigurations
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global configurations.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
NormalForwardVLANList	Normal forwarding VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. The string cannot end with a comma or hyphen, or include any whitespace characters. Default is not configured.

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OFP

OFP/LogicalSwitches

This table contains information about OpenFlow instance.

XML structure

```
<OFP>
  <LogicalSwitches>
    <LogicalSwitch>
      <InstanceID></InstanceID>
      <Description></Description>
      <DatapathID></DatapathID>
      <Enable></Enable>
      <Capabilities>
        <MaxEntries></MaxEntries>
        <DynamicMacAware></DynamicMacAware>
        <MacLearning></MacLearning>
        <TableMissDefaultPermit></TableMissDefaultPermit>
        <ForbiddenPort></ForbiddenPort>
        <PermitPort></PermitPort>
        <DynamicArpPre></DynamicArpPre>
        <TcpNsr></TcpNsr>
      </Capabilities>
      <Resources>
        <ClassificationType></ClassificationType>
        <ClassificationVLAN></ClassificationVLAN>
        <ClassificationVLANMask></ClassificationVLANMask>
        <ClassificationVLANLoosen></ClassificationVLANLoosen>
        <InbandManagementVLANList></InbandManagementVLANList>
        <MACIPTableIDList></MACIPTableIDList>
        <ExtensibilityFlowTableIDList></ExtensibilityFlowTableIDList>
      </Resources>
      <ConnectionCfg>
        <ConnectionMode></ConnectionMode>
        <ConnectionInterval></ConnectionInterval>
        <EchoInterval></EchoInterval>
        <LostConnectionBehavior></LostConnectionBehavior>
        <TcpDscp></TcpDscp>
        <ForbiddenPktInArpCtrl></ForbiddenPktInArpCtrl>
      </ConnectionCfg>
    </LogicalSwitch>
  </LogicalSwitches>
</OFP>
```

Table description

Item	Description
Feature name	OFP
Table name	LogicalSwitches
Table type	Multi-instance table
Row name	LogicalSwitch
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. Value range: 1-4094.
Description	Description of instance	N/A	String. Length: 1 to 255 characters.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. Value range: 1 to $2^{64}-1$.
Enable	Enable status of instance	N/A	Boolean: true—Yes. false—No.
Capabilities	Capabilities of instance	Data structure	Members include: - MaxEntries. - DynamicMacAware. - MacLearning. - TableMissDefaultPermit. - ForbiddenPort. - PermitPort. - DynamicArpPre. - TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. Value range: Depends on device type.
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: true—Yes. false—No.
MacLearning	Enable mac learning in instance	N/A	Boolean: true—Yes. false—No.
TableMissDefaultPermit	Assign "Permit" as the default table miss action of instance	N/A	Boolean: true—Yes. false—No.

Column name	Column description	Column type	Data type and restrictions
ForbiddenPort	Port type to be forbidden reporting port status to controller	N/A	Unsigned integer. 1st bit for VLAN interface. 2nd bit for VSI interface. 3rd bit for ROUTE interface.
PermitPort	Permit reporting ports of specific type	N/A	Unsigned integer. 1st bit for LAGG interface.
DynamicArpPre	Dynamic ARP will replace the conflicting openflow ARP	N/A	Boolean: true—Yes. false—No.
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: true—Yes. false—No.
Resources	Resources of instance	Data structure	Members include: - ClassificationType. - ClassificationVLAN. - ClassificationVLANMask. - ClassificationVLANLoosen. - InbandManagementVLANList. - MACIPTableIDList. - ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: 1—VLANMask. 2—Global.
ClassificationVLAN	VLAN value when the type of classification is VLANMask	N/A	Unsigned integer. Value range: 1-4094.
ClassificationVLANMask	VLAN mask value when the type of classification is VLANMask	N/A	Unsigned integer. Value range: 0-4095.
ClassificationVLANLoosen	Loosen mode when the type of classification is VLANMask	N/A	Boolean: true—Yes. false—No.
InbandManagementVLANList	In band management VLAN list of the instance	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters.
MACIPTableIDList	MAC-IP table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters.

Column name	Column description	Column type	Data type and restrictions
ExtensibilityFlowTableIDList	Extensibility table ID configuration of the instance	N/A	Number string. It is a comma-separated list of table ID items. The string must not end with a comma or hyphen, or include any whitespace characters.
ConnectionCfg	Configuration of connection in instance	Data structure	Members include: - ConnectionMode. - ConnectionInterval. - EchoInterval. - LostConnectionBehavior. - TcpDscp. - ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: 0—Parallel. 1—Serially.
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. Value range: 10-120.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. Value range: 1-10.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: 1—Standalone. 2—Secure. 4—Smart
TcpDscp	Set the DSCP value for OpenFlow messages in an OpenFlow instance	N/A	Unsigned integer. Value range: 0-63.
ForbiddenPktInArpCtrl	Specify controllers to which ARP packets are forbidden to be sent	N/A	Unsigned integer64. 1st bit for controller 0. 2nd bit for controller 1. 3rd bit for controller 2. 63rd bit for controller 62. 64th bit for controller 63.

OFP/Controller

This table contains information about OpenFlow controllers.

XML structure

```
<OFP>
  <Controllers>
```

```

<Controller>
  <InstanceID></InstanceID>
  <ControllerID></ControllerID>
  <Role></Role>
  <IPv4Address></IPv4Address>
  <IPv6Address></IPv6Address>
  <Port></Port>
  <LocalIPv4Address></LocalIPv4Address>
  <LocalIPv6Address></LocalIPv6Address>
  <LocalPort></LocalPort>
  <Protocol></Protocol>
  <VRF></VRF>
  <SSLPolicy></SSLPolicy>
  <ConnectionState></ConnectionState>
  <CurrentVersion></CurrentVersion>
</Controller>
</Controllers>
</OFP>

```

Table description

Item	Description
Feature name	OFP
Table name	Controllers
Table type	Multi-instance table
Row name	Controller
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
InstanceID	Instance ID	Index	Unsigned integer. • Value range: 1-4094.
ControllerID	Controller ID	Index	Unsigned integer. Value range: 0-63.
Role	Controller role	N/A	Enumeration: • 0 —Unknown. • 1 —Equal. • 2 —Master. • 3 —Slave.
IPv4Address	Controller's IPv4 address	N/A	String, dotted decimal notation.
IPv6Address	Controller's IPv6 address	N/A	String, semicolon hex notation.

Column name	Column description	Column type	Data type and restrictions
Port	Controller's port	N/A	Unsigned integer. • Value range: 1-65535 .
LocalIPv4Address	Local IPv4 address for connection with controller	N/A	String, dotted decimal notation.
LocalIPv6Address	Local IPv6 address for connection with controller	N/A	String, semicolon hex notation.
LocalPort	Local port for connection with controller	N/A	Unsigned integer. • Value range: 1-65535 .
Protocol	Protocol used for connection with controller	N/A	Enumeration: • 1 —TCP • 2 —SSL
VRF	VRF name for VPN connection with controller	N/A	String. Length: 1 to 31 characters.
SSLPolicy	SSL policy name for SSL connection with controller	N/A	String. Length: 1 to 31 characters.
ConnectionState	Connection state of controller	N/A	Enumeration: • 0 —Idle. • 1 —Established.
CurrentVersion	Wired version of OpenFlow protocol for the connection.	N/A	String. Length: 1 to 15 characters.

OFP/GlobalConfigurations

This table contains information about OpenFlow global configurations.

XML structure

```

<OFP>
  <GlobalConfigurations>
    <NormalForwardVLANList></NormalForwardVLANList>
  </GlobalConfigurations>
</OFP>

```

Table description

Item	Description
Feature name	OFP
Table name	GlobalConfigurations
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
NormalForwardVLANList	Global support for normal forward VLAN list	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters.

OFP/Capability

This table contains OFP capability information, and it is used to obtain custom OFP parameters.

XML structure

```

<OFP>
  <Capability>
    <LostConnectionSmartMode></LostConnectionSmartMode>
  </Capability>
</OFP>

```

Table description

Item	Description
Feature name	OFP
Table name	Capability
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
LostConnectionSmartMode	SmartMode behavior for connection failure with all controllers in an OpenFlow instance	N/A	Boolean: • true—Support. • false—Nonsupport.

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OSPF

OSPF/Instances

This table contains OSPF instance information.

XML structure

```
<OSPF>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
    </Instance>
  </Instances>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.	After an instance is created, its VRF cannot be modified.
RouterId	Router identifier.	N/A	String, dotted decimal notation.	After this column is created or merged, it cannot be deleted or removed.

OSPF/Redistributes

This table contains OSPF redistribute list information.

XML structure

```
<OSPF>
  <Redistributes>
    <Redist>
      <Name></Name>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </Redist>
  </Redistributes>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create redistribute lists for it. It must be an unsigned integer in the range of 1 to 65535.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 1—Direct. • 2—Static. • 3—RIP. • 4—OSPF. • 5—ISIS. • 6—BGP.	
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static, or BGP.

OSPF/Areas

This table contains OSPF area information.

XML structure

```

<OSPF>
  <Areas>
    <Area>
      <Name></Name>
      <AreaId></AreaId>
      <AreaType></AreaType>
    </Area>
  </Areas>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Areas
Table type	Multi-instance table
Row name	Area
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before

Column name	Column description	Column type	Data type and restrictions	Remarks
				you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
AreaType	Area type.	N/A	Enumeration: 1—Stub. 2—NSSA.	You cannot specify AreaType when AreaId is 0.

OSPF/Networks

This table contains OSPF network list information.

XML structure

```

<OSPF>
  <Networks>
    <Network>
      <Name></Name>
      <AreaId></AreaId>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
    </Network>
  </Networks>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance and an area before you merge or create networks for it. It must be an unsigned integer in the range of 1 to 65535.
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
NetworkAddr	Network address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

OSPF/Interfaces

This table contains OSPF interface information.

XML structure

```

<OSPF>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfEnable>
        <Name></Name>
        <AreaId></AreaId>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Cost></Cost>
      <NetworkType></NetworkType>
      <HelloTimer></HelloTimer>
      <DeadTimer></DeadTimer>
      <DrPriority></DrPriority>
      <SimpleAuth>
        <SimplePwdType></SimplePwdType>
        <SimplePwd></SimplePwd>
      </SimpleAuth>
      <BfdEnable></BfdEnable>
    </Interface>
  </Interfaces>
</OSPF>

```


Table description

Item	Description
Feature name	OSPF
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
IfEnable	Interface enable messages.	Data structure	Members include: - Name. - Areald. - ExcludedSubIp.	The members of Name and Areald must be specified.
Name	Instance Name.	N/A	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
Areald	Area ID.	N/A	String, dotted decimal notation.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: true—Excludes secondary IP addresses. false—Does not exclude secondary IP addresses (default).	N/A
Cost	Interface cost.	N/A	Unsigned integer. Value range: - Loopback interfaces: 0 to 65535. - Other interfaces: 1 to 65535. Default: - Loopback interfaces: 0.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Other interfaces: The cost values are calculated by using the formula: <i>Cost = Reference bandwidth value / Expected interface bandwidth.</i>	
NetworkType	Interface network type.	N/A	Enumeration: 1—Broadcast. 2—NBMA. 3—P2P. 4—P2MP. 5—P2MP unicast.	N/A
HelloTimer	Hello interval.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeadTimer	Dead interval.	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255. Default: 1.	N/A
SimpleAuth	Simple authentication messages.	Data structure	Members include: - SimplePwdType. - SimplePwd.	The members must both be specified.
SimplePwdType	Simple password type.	N/A	Enumeration: 1—Cipher. 2—Plain.	N/A
SimplePwd	Simple password.	N/A	String. Length: 1 to 8 characters for plain password. 33 to 41 characters for cipher password.	N/A
BfdEnable	BFD is enabled for OSPF.	N/A	Enumeration: 1—Enable control packet mode. 2—Enable echo packet mode.	N/A

OSPF/IfMd5s

This table contains OSPF interface cryptographic authentication information.

XML structure

```

<OSPF>
  <IfMd5s>
    <Md5>
      <IfIndex></IfIndex>
    
```

```

    <KeyId></KeyId>
    <Md5Type></Md5Type>
    <PasswordType></PasswordType>
    <Password></Password>
  </Md5>
</IfMd5s>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	IfMd5s
Table type	Multi-instance table
Row name	Md5
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
KeyId	Key ID.	Index	Unsigned integer. Value range: 1 to 255.	N/A
Md5Type	Cryptographic authentication type.	N/A	Enumeration: 1—MD5. 2—HMAC-MD5. 3—HMAC-SHA-256.	After a Md5 is created, its Md5Type cannot be modified.
PasswordType	Password type.	N/A	Enumeration: 1—Cipher. 2—Plain.	After a Md5 is created, its PasswordType cannot be modified.
Password	Password.	N/A	String. Length: 1 to 16 characters for	After a Md5 is created, its Password cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			MD5/HMAC-MD5 plain password, and 1 to 255 characters for HMAC-SHA-256 plain password. 33 to 53 characters for MD5/HMAC-MD5 cipher password, and 33 to 373 characters for HMAC-SHA-256 cipher password.	

OSPF/Preferences

This table contains OSPF preference information.

XML structure

```

<OSPF>
  <Preferences>
    <Preference>
      <Name></Name>
      <TopoId></TopoId>
      <Type></Type>
      <Value></Value>
      <PolicyName></PolicyName>
    </Preference>
  </Preferences>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Preferences
Table type	Multi-instance table
Row name	Preference
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Type	Route type.	Index	Enumeration: 1—AS internal route. 2—AS external route.	N/A
Value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255. Default: - AS internal route is 10. - AS external route is 150.	N/A
PolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.	N/A

OSPF/AsbrSummarys

This table contains OSPF ASBR summary route information.

XML structure

```

<OSPF>
  <AsbrSummarys>
    <AsbrSummary>
      <Name></Name>
      <TopoId></TopoId>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <Cost></Cost>
      <NotAdvertise></NotAdvertise>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </AsbrSummary>
  </AsbrSummarys>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	AsbrSummarys
Table type	Multi-instance table
Row name	AsbrSummary
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
Ipv4Address	IPv4 address.	Index	IPv4: String, dotted decimal notation.	N/A
Ipv4Mask	Mask of IP address.	Index	IPv4: String, dotted decimal notation.	N/A
Cost	Summary route cost.	N/A	Unsigned integer. Value range: 1 to 16777214.	N/A
NotAdvertise	Does not advertise summary route.	N/A	Boolean: true—Does not advertise summary route. false—Advertises summary route (default).	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: true—Limits summary routes to NSSA areas. false—Does not limit summary routes to NSSA areas (default).	N/A
Tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: 1.	N/A

OSPF/StubRouters

This table contains OSPF stub router information.

XML structure

```
<OSPF>
  <StubRouters>
    <StubRouter>
      <Name></Name>
      <TopoId></TopoId>
      <ExternalLsa></ExternalLsa>
      <ExtMetric></ExtMetric>
      <IncludeStub></IncludeStub>
      <OnStartup>
        <WaitForBgp></WaitForBgp>
        <Seconds></Seconds>
      </OnStartup>
      <SummaryLsa></SummaryLsa>
      <SumMetric></SumMetric>
    </StubRouter>
  </StubRouters>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	StubRouters
Table type	Multi-instance table
Row name	StubRouter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge, create, replace, delete, or remove StubRouter lists for it. It must be an

Column name	Column description	Column type	Data type and restrictions	Remarks
				unsigned integer in the range of 1 to 65535.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
ExternalLsa	Configures the cost of external LSAs.	N/A	Boolean: true—Specifies a cost for the external LSAs. false—Does not specify a cost for the external LSAs (default).	For the create and merge operations, if you both configure the ExternalLsa and ExtMetric, you must specify the ExternalLsa as true. For the replace operation, if you configure the ExtMetric, you must configure the ExternalLsa too, and specify the ExternalLsa as true. For the delete and remove operations, if you configure the ExternalLsa, the ExtMetric value will be deleted.
ExtMetric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215. Default: 16711680.	N/A
IncludeStub	Sets the cost of the stub links.	N/A	Boolean: true—Sets the cost of the stub links (link type 3) in Router LSAs to the maximum value 65535. false—Does not set the cost of the stub links (link type 3) in Router LSAs (default).	N/A
OnStartup	Specifies the router as a stub router during reboot.	Data structure	Members include: - WaitForBgp. - Seconds.	At least one member must be specified.
WaitForBgp	Waits for BGP on-startup.	N/A	Boolean: true—Specifies the router as a stub router during BGP route convergence after	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			reboot. false—Does not specify the router as a stub router during BGP route convergence after reboot (default).	
Seconds	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400. Default: 600 (when WaitForBgp is specified as true).	The unit is seconds. When WaitForBgp is specified as true , the default value for Seconds is 600.
SummaryLsa	Configures the cost of the summary LSAs.	N/A	Boolean: true—Specifies a cost for the Type-3 LSAs. false—Does not specify a cost for the Type-3 LSAs (default).	For the create and merge operations, if you both configure the SummaryLsa and SumMetric, you must specify the SummaryLsa as true. For the replace operation, if you configure the SumMetric, you must configure the SummaryLsa too, and specify the SummaryLsa as true. For the delete and remove operations, if you configure the SummaryLsa, the SumMetric value will be deleted.
SumMetric	Cost of the summary LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215. Default: 16711680.	N/A

OSPF/Nssas

This table contains OSPF NSSA area information.

XML structure

```

<OSPF>
  <Nssas>
    <Nssa>
      <Name></Name>

```

```

    <TopoId></TopoId>
    <AreaId></AreaId>
    <DefaultRouteAdvertiseCfg>
        <DefaultRouteAdvertise></DefaultRouteAdvertise>
        <Cost></Cost>
        <NssaOnly></NssaOnly>
        <PolicyName></PolicyName>
        <Type></Type>
    </DefaultRouteAdvertiseCfg>
    <NoImportRoute></NoImportRoute>
    <NoSummary></NoSummary>
    <SuppressFa></SuppressFa>
    <Translate></Translate>
    <TranslatorStabilityInterval></TranslatorStabilityInterval>
</Nssa>
</Nssas>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Nssas
Table type	Multi-instance table
Row name	Nssa
Restrictions	The row can be operated only when the AreaType of the corresponding area in the Areas table is configured as Nssa.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create areas for it. It must be an unsigned integer in the range of 1 to 65535.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.	Only 0 is supported now.
AreaId	Area ID.	Index	String, dotted decimal notation.	
DefaultRoute	Default route	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertiseCfg	advertisement messages.	structure	• DefaultRouteAdvertise. • Cost. • NssaOnly. • PolicyName. • Type.	
DefaultRouteAdvertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: • true—Generates a Type-7 default into the NSSA area. • false—Does not generate a Type-7 default into the NSSA area. (default).	For the create and merge operations, if you both configure the DefaultRouteAdvertise and the other members, you must specify the DefaultRouteAdvertise as true. For the replace operation, if you configure the other members, you must configure the DefaultRouteAdvertise too, and specify it as true. For the delete and remove operations, if you configure the DefaultRouteAdvertise, the values of the rest members will be deleted.
Cost	Metric for default route.	N/A	Unsigned integer. Value range: 0 to 16777214.	N/A
NssaOnly	Whether to limit the default route advertisement to the NSSA area.	N/A	Boolean: • true—Limits the default route advertisement to the NSSA area. • false—Does not limit the default route advertisement to the NSSA area (default).	N/A
PolicyName	Specifies the routing policy to filter default route.	N/A	String. Length: 1 to 63 characters.	N/A
Type	Specifies a cost type for the Type-7 LSA.	N/A	Enumeration: • 1—Type 1. • 2—Type 2.	N/A
NoImportRoute	Whether to redistribute routes into the NSSA area.	N/A	Boolean: • true—Does not redistribute routes into the NSSA area. • false—Redistributes routes into the NSSA area (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NoSummary	Whether to send summary LSA into the NSSA area.	N/A	Boolean: true—Does not send summary LSA into the NSSA area. false—Sends summary LSA into the NSSA area (default).	N/A
SuppressFa	Whether to suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A	Boolean: true—Suppresses the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs. false—Does not suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs (default).	N/A
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: 1—Always translates Type-7 LSAs to Type-5 LSAs. 2—Never translates Type-7 LSAs to Type-5 LSAs. 3—Ignores checking the backbone area. 4—Always translates Type-7 LSAs to Type-5 LSAs and ignores checking the backbone area.	N/A
TranslatorStabilityInterval	Specifies the stability interval of the translator.	N/A	Unsigned integer. Value range: 0 to 900.	The unit is seconds and the default value is 0.

OSPF/SilentAllInterfaces

This table contains all OSPF silent interface information.

XML structure

```

<OSPF>
  <SilentAllInterfaces>
    <SilentAllInterface>
      <Name></Name>
      <SilentAll></SilentAll>
    </SilentAllInterface>
  </SilentAllInterfaces>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create SilentAllInterfaces for it. It must be an unsigned integer in the range of 1 to 65535.
SilentAll	Whether to specify all interfaces	N/A	Boolean: true—Specifies all interfaces. false—Does not specify all interfaces(default).	N/A

OSPF/SilentInterfaces

This table contains OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentInterfaces>
    <SilentInterface>
      <Name></Name>
      <IfName></IfName>
      <Silent></Silent>
    </SilentInterface>
  </SilentInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance before you merge or create SilentInterfaces for it. It must be an unsigned integer in the range of 1 to 65535.
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Silent	Whether to specify the interface	N/A	Boolean: true—Specifies the interface. false—Does not specify the interface.	If SilentAll is true in the SilentAllInterfaces table, the default Silent value is true. If SilentAll is false in the SilentAllInterfaces table, the default Silent value is false.

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OSPF

OSPF/Instances

This table contains OSPF instance information.

XML structure

```
<OSPF>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
      <RouterId></RouterId>
    </Instance>
  </Instances>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.
RouterId	Router identifier.	N/A	String, dotted decimal notation.

OSPF/Redistributes

This table contains OSPF redistribute list information.

XML structure

```
<OSPF>
  <Redistributes>
    <Redist>
      <Name></Name>
      <TopoId></TopoId>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </Redist>
  </Redistributes>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127. Default: 0.
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct. • 2—Static. • 3—RIP. • 4—OSPF. • 5—ISIS. • 6—BGP.
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.

OSPF/Areas

This table contains OSPF area information.

XML structure

```
<OSPF>
  <Areas>
    <Area>
      <Name></Name>
      <AreaId></AreaId>
      <AreaType></AreaType>
    </Area>
  </Areas>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Areas
Table type	Multi-instance table
Row name	Area
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
AreaId	Area ID.	Index	String, dotted decimal notation.
AreaType	Area type.	N/A	Enumeration: • 1—Stub. • 2—NSSA.

OSPF/Networks

This table contains OSPF network list information.

XML structure

```
<OSPF>
  <Networks>
    <Network>
      <Name></Name>
      <AreaId></AreaId>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
```

```

    </Network>
  </Networks>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
AreaId	Area ID.	Index	String, dotted decimal notation.
NetworkAddr	Network address.	Index	String, dotted decimal notation.
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.

OSPF/Interfaces

This table contains OSPF interface information.

XML structure

```

<OSPF>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <IfEnable>
        <Name></Name>
        <AreaId></AreaId>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Cost></Cost>
      <NetworkType></NetworkType>
      <HelloTimer></HelloTimer>
      <DeadTimer></DeadTimer>
    </Interface>
  </Interfaces>
</OSPF>

```

```

    <DrPriority></DrPriority>

    <SimpleAuth>
      <SimplePwdType></SimplePwdType>
      <SimplePwd></SimplePwd>
    </SimpleAuth>

    <CurAuthType></CurAuthType>

    <CurMd5KeyId></CurMd5KeyId>

    <State></State>

    <BfdEnable></BfdEnable>

  </Interface>
</Interfaces>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
IfEnable	Interface enable messages.	Data structure	Members include: - Name. - AreaId.	N/A
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	N/A	String, dotted decimal notation.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: true—Excludes secondary IP addresses. false—Does not	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			exclude secondary IP addresses (default).	
Cost	Interface cost.	N/A	Unsigned integer. Value range: 0 to 65535 for loopback interfaces. 1 to 65535 for other interfaces.	N/A
NetworkType	Interface network type.	N/A	Enumeration: 1—Broadcast. 2—NBMA. 3—P2P. 4—P2MP. 5—P2MP unicast.	N/A
HelloTimer	Hello interval.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
DeadTimer	Dead interval.	N/A	Unsigned integer. Value range: 1 to 2147483647.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SimpleAuth	Simple authentication messages.	Data structure	Members include: - SimplePwdType. - SimplePwd.	N/A
SimplePwdType	Simple password type.	N/A	Enumeration: 1—Ciphertext. 2—Plaintext.	N/A
SimplePwd	Simple password.	N/A	String. Length: 1 to 8 characters for plain password. 33 to 41 characters for cipher password.	N/A
CurAuthType	Enabled authentication mode.	N/A	Enumeration: 1—Simple. 2—MD5. 3—HMAC-MD5. 4—HMAC-SHA-256.	N/A
CurMd5Id	Last key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
State	Interface state.	N/A	Enumeration: 0—Down. 1—Waiting. 2—P-2-P. 3—DR.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 4—BDR. • 5—DROther. • 6—Loopback.	
BfdEnable	BFD is enabled for OSPF.	N/A	Enumeration: • 1—Enable control packet mode. • 2—Enable echo packet mode.	N/A

OSPF/IfMd5s

This table contains OSPF interface cryptographic authentication information.

XML structure

```

<OSPF>
  <IfMd5s>
    <Md5>
      <IfIndex></IfIndex>
      <KeyId></KeyId>
      <Md5Type></Md5Type>
      <PasswordType></PasswordType>
      <Password></Password>
    </Md5>
  </IfMd5s>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	IfMd5s
Table type	Multi-instance table
Row name	Md5
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD

Column name	Column description	Column type	Data type and restrictions	Remarks
				document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
KeyId	Key ID.	Index	Unsigned integer. Value range: 1 to 255.	N/A
Md5Type	Cryptographic authentication type.	N/A	Enumeration: 1—MD5. 2—HMAC-MD5. 3—HMAC-SHA-256.	N/A
PasswordType	Password type.	N/A	Enumeration: 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.	N/A	String. Length: 1 to 16 characters for MD5/HMAC-MD5 plain password, and 1 to 255 characters for HMAC-SHA-256 plain password. 33 to 53 characters for MD5/HMAC-MD5 cipher password, and 33 to 373 characters for HMAC-SHA-256 cipher password.	N/A

OSPF/Neighbours

This table contains OSPF neighbour information.

XML structure

```

<OSPF>
  <Neighbours>
    <Nbr>
      <IfIndex></IfIndex>
      <NbrAddress></NbrAddress>
      <NbrRouterId></NbrRouterId>
      <Name></Name>
      <AreaId></AreaId>
      <DrPriority></DrPriority>
      <State></State>
    </Nbr>
  </Neighbours>
</OSPF>

```

```

    </Neighbours>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Neighbours
Table type	Multi-instance table
Row name	Nbr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
NbrAddress	Neighbour IPv4 address.	Index	String, dotted decimal notation.	N/A
NbrRouterId	Neighbour router identifier.	N/A	String, dotted decimal notation.	N/A
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
AreaId	Area ID.	N/A	String, dotted decimal notation.	N/A
DrPriority	Router priority.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
State	Neighbour state.	N/A	Enumeration: • 0—Down. • 1—Init. • 2—Attempt. • 3—2-way. • 4—Exstart. • 5—Exchange. • 6—Loading. • 7—Full.	N/A

OSPF/Preferences

This table contains OSPF preference information.

XML structure

```
<OSPF>
  <Preferences>
    <Preference>
      <Name></Name>
      <TopoId></TopoId>
      <Type></Type>
      <Value></Value>
      <PolicyName></PolicyName>
    </Preference>
  </Preferences>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	Preferences
Table type	Multi-instance table
Row name	Preference
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.
Type	Route type.	Index	Enumeration: • 1—AS internal route. • 2—AS external route.
Value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255.
PolicyName	Name of the routing policy.	N/A	String. Length: 1 to 63 characters.

OSPF/AsbrSummarys

This table contains OSPF ASBR summary route information.

XML structure

```
<OSPF>
  <AsbrSummarys>
    <AsbrSummary>
      <Name></Name>
      <TopoId></TopoId>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <Cost></Cost>
      <NotAdvertise></NotAdvertise>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </AsbrSummary>
  </AsbrSummarys>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	AsbrSummarys
Table type	Multi-instance table
Row name	AsbrSummary
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127	N/A
Ipv4Address	IPv4 address.	Index	IPv4: String, dotted decimal notation.	N/A
Ipv4Mask	Mask of IP address	Index	Unsigned integer. Value range: 0 to 32.	N/A
Cost	Summary route cost.	N/A	Unsigned integer. Value range: 0 to 16777214.	If it is not configured, the largest cost among the

Column name	Column description	Column type	Data type and restrictions	Remarks
				summarized routes applies. If the routes in Type-5 LSAs translated from Type-7 LSAs are Type-2 external routes, the largest cost among the summarized routes plus 1 applies.
NotAdvertise	Does not advertise summary route.	N/A	Boolean: true—Does not advertise summary route. false—Advertises summary route.	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: true—Limits summary routes to NSSA areas. false—Does not limit summary routes to NSSA areas.	N/A
Tag	Summary route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	If it is not configured, the tag specified by the default tag command is used.

OSPF/StubRouters

This table contains OSPF stub router information.

XML structure

```

<OSPF>
  <StubRouters>
    <StubRouter>
      <Name></Name>
      <TopoId></TopoId>
      <ExternalLsa></ExternalLsa>
      <ExtMetric></ExtMetric>
      <IncludeStub></IncludeStub>
      <OnStartup>
        <WaitForBgp></WaitForBgp>
        <Seconds></Seconds>
      </OnStartup>
      <SummaryLsa></SummaryLsa>
      <SumMetric></SumMetric>
    </StubRouter>
  </StubRouters>

```

</OSPF>

Table description

Item	Description
Feature name	OSPF
Table name	StubRouters
Table type	Multi-instance table
Row name	StubRouter
Restrictions	For the get or get-bulk operations, the data of the StubRouters table can be get only when the router is in stub state.

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Instance name.	Index	String. Length: 1 to 31 characters.
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.
ExternalLsa	Configures the cost of external LSAs.	N/A	Boolean: • true—Specifies a cost for the external LSAs. • false—Does not specify a cost for the external LSAs.
ExtMetric	Cost of the external LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.
IncludeStub	Sets the cost of the stub links.	N/A	Boolean: • true—Sets the cost of the stub links (link type 3) in Router LSAs to the maximum value 65535. • false—Does not set the cost of the stub links (link type 3) in Router LSAs.
OnStartup	Specifies the router as a stub router during reboot.	Data structure	Members include: • WaitForBgp. • Seconds.
WaitForBgp	Waits for BGP on startup.	N/A	Boolean: • true—Specifies the router as a stub router during BGP route convergence after reboot. • false—Does not specify the router as a stub router during BGP route convergence after reboot.

Column name	Column description	Column type	Data type and restrictions
Seconds	On-startup timeout time.	N/A	Unsigned integer. Value range: 5 to 86400. Default: 600 (when WaitForBgp is specified as true).
SummaryLsa	Configures the cost of the summary LSAs.	N/A	Boolean: true—Specifies a cost for the Type-3 LSAs. false—Does not specify a cost for the Type-3 LSAs.
SumMetric	Cost of the summary LSAs.	N/A	Unsigned integer. Value range: 1 to 16777215.

OSPF/Nssas

This table contains OSPF NSSA area information.

XML structure

```

<OSPF>
  <Nssas>
    <Nssa>
      <Name></Name>
      <TopoId></TopoId>
      <AreaId></AreaId>
      <DefaultRouteAdvertiseCfg>
        <DefaultRouteAdvertise></DefaultRouteAdvertise>
        <Cost></Cost>
        <NssaOnly></NssaOnly>
        <PolicyName></PolicyName>
        <Type></Type>
      </DefaultRouteAdvertiseCfg>
      <NoImportRoute></NoImportRoute>
      <NoSummary></NoSummary>
      <SuppressFa></SuppressFa>
      <Translate></Translate>
      <TranslatorStabilityInterval></TranslatorStabilityInterval>
    </Nssa>
  </Nssas>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	Nssas

Item	Description
Table type	Multi-instance table
Row name	Nssa
Restrictions	The row can be operated only when the AreaType of the corresponding area in the Areas table is configured as Nssa.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
Topold	Topology ID.	Index	Unsigned integer. Value range: 0, 32 to 127.	N/A
AreaId	Area ID.	Index	String, dotted decimal notation.	N/A
DefaultRouteAdvertiseCfg	Default route advertisement messages.	Data structure	Members include: - DefaultRouteAdvertise. - Cost. - NssaOnly. - PolicyName. - Type.	N/A
DefaultRouteAdvertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: true—Generates a Type-7 default into the NSSA area. false—Does not generate a Type-7 default into the NSSA area.	N/A
Cost	Metric for default route.	N/A	Unsigned integer. Value range: 0 to 16777214.	Depends on the value specified by using the default-cost command and the default value of the default-cost command is 1.
NssaOnly	Whether to limit the default route advertisement to the NSSA area.	N/A	Boolean: true—Limits the default route advertisement to the NSSA area. false—Does not limit the default route advertisement to the NSSA area.	N/A
PolicyName	Specifies the routing policy to filter default route.	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Specifies a cost type for the Type-7 LSA.	N/A	Enumeration: • 1—Type 1. • 2—Type 2.	Depends on the value specified by using the default type command and the default value of the default type command is 2.
NoImportRoute	Whether to redistribute routes into the NSSA area.	N/A	Boolean: • true—Does not redistribute routes into the NSSA area. • false—Redistribute routes into the NSSA area.	N/A
NoSummary	Whether to send summary LSA into the NSSA area.	N/A	Boolean: • true—Does not send summary LSA into the NSSA area. • false—Sends summary LSA into the NSSA area.	N/A
SuppressFa	Whether to suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A	Boolean: • true—Suppresses the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs. • false—Does not suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.	N/A
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: • 1—Always translates Type-7 LSAs to Type-5 LSAs. • 2—Never translates Type-7 LSAs to Type-5 LSAs. • 3—Ignores checking the backbone area. • 4—Always translates Type-7 LSAs to Type-5 LSAs and ignores checking the backbone area.	N/A
TranslatorStabilityInterval	Specifies the stability interval of the translator.	N/A	Unsigned integer. Value range: 0 to 900.	N/A

OSPF/SilentAllInterfaces

This table contains all OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentAllInterfaces>
    <SilentAllInterface>
      <Name></Name>
      <SilentAll></SilentAll>
    </SilentAllInterface>
  </SilentAllInterfaces>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	SilentAllInterfaces
Table type	Multi-instance table
Row name	SilentAllInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
SilentAll	Whether to specify all interfaces	N/A	Boolean: true—Specifies all interfaces. false—Does not specify all interfaces.	N/A

OSPF/SilentInterfaces

This table contains OSPF silent interface information.

XML structure

```
<OSPF>
  <SilentInterfaces>
    <SilentInterface>
      <Name></Name>
      <IfName></IfName>
      <Silent></Silent>
    </SilentInterface>
  </SilentInterfaces>
</OSPF>
```



```

    </SilentInterfaces>
  </OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	SilentInterfaces
Table type	Multi-instance table
Row name	SilentInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
IfName	Interface name	Index	String. Length: 1 to 47 characters.	N/A
Silent	Whether to specify the interface	N/A	Boolean: true—Specifies the interface. false—Does not specify the interface.	If SilentAll is true in the SilentAllInterfaces table, the SilentInterfaces table gets data or configuration about interfaces that are not silent. If SilentAll is false in the SilentAllInterfaces table, the SilentInterfaces table gets data or configuration about silent interfaces.

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Package

Package/SetBootImage

This table contains information to specify startup software image files for special node.

XML structure

```
<Package>
  <SetBootImage>
    <DeviceNode>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </DeviceNode>
    <ImageFiles>
      <Boot></Boot>
      <System></System>
      <Feature></Feature>
    </ImageFiles>
    <IPEFileName></IPEFileName>
    <Type></Type>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </SetBootImage>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetBootImage
Table type	Single-instance
Row name	None
Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Specify a target node of the system.	Data structure	Members include: - Chassis. - Slot. - CPUID.	Optional column, specify a target node which to set all this image files as the startup software image files, if not specify, all suitable nodes will be set.
Chassis	Chassis of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ImageFiles	.bin image file list to set as the startup image files.	Data structure	Members include: - Boot. - System. - Feature.	Column of Feature is optional, but both Boot and System must be included.
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specify several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either IPEFileName or ImageFiles to specify the startup software image files.
Type	Startup type to set.	N/A	Enumeration: 1—main. 2—backup.	Backup images are used only when main images are not available.
OverwriteLocalFile	Whether overwrite image files when copying.	N/A	Boolean: - true - false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after setting it as the next startup image.	N/A	Boolean: - true - false	Optional column, if not specify default is false.

Package/SetExtendImage

This table contains information to specify startup software image files stored on the device for security engines or PEXs.

XML structure

```
<Package>
  <SetExtendImage>
    <ExtendImage>
      <Model></Model>
      <ImageFiles>
        <Boot></Boot>
        <System></System>
        <Feature></Feature>
      </ImageFiles>
      <IPEFileName></IPEFileName>
      <Type></Type>
      <OverwriteLocalFile></OverwriteLocalFile>
      <DeleteIPEFile></DeleteIPEFile>
    </ExtendImage>
  </SetExtendImage>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	SetExtendImage
Table type	Multi-instance
Row name	ExtendImage
Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	Specifies the PEX model or	Index	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the security engine model.			
ImageFiles	.bin image files list to set as the model startup image files.	Data structure	Members include: • Boot. • System. • Feature.	Column of Feature is optional, but both Boot and System must be included.
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specifies several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either IPEFileName or ImageFiles to speicify the startup software image files.
Type	Model startup type.	N/A	Enumeration: • 1—main. • 2—backup.	Backup images are used only when main images are not available.
OverwriteLocalFile	Whether overwrite image file when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after setting it as the model startup image file.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/InstallImage

This table contains information to activate or deactivate feature image files or patch file on special node.

XML structure

```

<Package>
  <InstallImage>
    <Action></Action>
    <ImageFiles>
      <Feature></Feature>
    </ImageFiles>
  </InstallImage>
</Package>

```

```

    <PatchFile></PatchFile>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
    </DeviceNode>
</InstallImage>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	InstallImage
Table type	Single-instance
Row name	None
Restrictions	This table only support patch image file and feature image file, only support fileupgrade and service upgrade for feature image file. Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify which action to handle all this image files.	N/A	Enumeration: 1—activate. 2—deactivate.	N/A
ImageFiles	Feature image files list to handle.	Data structure	Members include: Feature.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specify several feature image files of up to 30.
PatchFile	Specifies the file path of a .bin patch image file.	N/A	String. Length: 1 to 127 characters.	You could choose either ImageFiles or PatchFile to do the specify action.
OverwriteLoc	Whether	N/A	Boolean:	Optional column, if not

Column name	Column description	Column type	Data type and restrictions	Remarks
alFile	overwrite image file when copying.		- true - false	specify default is false.
DeviceNode	Specify a target node of the system.	Data structure	Members include: - Chassis. - Slot. - CPUID.	Optional column, specify a target node which to activate or deactivate all images files, if not specify, all suitable nodes will do the action.
Chassis	Chassis of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Package/SetIssuMPUFile

This table contains information to set issu image files for MPUs to update the system.

XML structure

```

<Package>
  <SetIssuMPUFile>
    <ImageFiles>
      <Boot></Boot>
      <System></System>
      <Feature></Feature>
    </ImageFiles>
    <IPEFileName></IPEFileName>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </SetIssuMPUFile>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	SetIssuMPUFile
Table type	Single-instance
Row name	None

Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. An image file path must in the format of storage-medium:/base-filename.bin or storage-medium:/base-filename.ipe, should not include the IRF member ID or slot number information in front of the storage medium segment.
--------------	---

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImageFiles	.bin image file list to set as the MPUs issu image files.	Data structure	Members include: • Boot. • System. • Feature.	N/A
Boot	Specifies the file path of a .bin boot image file	N/A	String. Length: 1 to 63 characters.	N/A
System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 63 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 63 characters.	This column can repeat to specify several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 63 characters.	You could choose either ImageFiles or IPEFileName to specify issu image files for MPUs .
OverwriteLocalFile	Whether overwrite images files when copying.	N/A	Boolean: • true • false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: • true • false	Optional column, if not specify default is false.

Package/SetIssuExtendFile

This table contains information to set issu image files for security engines or PEXs to update the system.

XML structure

```
<Package>
  <SetIssuExtendFile>
```

```

<IssuExtendFile>
  <Model></Model>
  <ImageFiles>
    <Boot></Boot>
    <System></System>
    <Feature></Feature>
  </ImageFiles>
  <IPEFileName></IPEFileName>
  <OverwriteLocalFile></OverwriteLocalFile>
  <AutoDeleteFile></AutoDeleteFile>
</IssuExtendFile>
</SetIssuExtendFile>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	SetIssuExtendFile
Table type	Multi-instance
Row name	IssuExtendFile
Restrictions	Image files must already exist in the root directory of storage medium, must on the same device. Mostly an image file path is in the format of storage-medium:/base-filename.bin, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where this image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	Specifies the PEX model or the security engine model	Index	String. Length: 1 to 63 characters.	N/A
ImageFiles	.bin image file list to set as the issu image files for security engines or PEXs.	Data structure	Members include: • Boot. • System. • Feature.	N/A
Boot	Specifies the file path of a .bin boot image file.	N/A	String. Length: 1 to 127 characters.	N/A

System	Specifies the file path of a .bin system image file.	N/A	String. Length: 1 to 127 characters.	N/A
Feature	Specifies the file path of a .bin feature image file.	N/A	String. Length: 1 to 127 characters.	This column can repeat to specify several feature image files of up to 30.
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	You could choose either ImageFiles or IPEFileName to specify issu image files for security engines or PEXs.
OverwriteLocalFile	Whether overwrite images files when copying.	N/A	Boolean: - true - false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: - true - false	Optional column, if not specify default is false.

Package/IssuUpgrade

This table contains information to update system step by step. To update the system you can following steps below: firstly make sure the "Status" and the "Action" is all "none" in the table IssuUpgrade(See Comware V7 Package NETCONF XML API Data Reference.docx); secondly specify the ISSU image files for MPUs(see table SetIssuMPUFile), additionally you can also specify ISSU image files for security engines and PEXs if you want to update these devices(see table SetIssuExtendFile); thirdly test all the image files you set, then install after test successfully, after that you can wait until the updating all done or you can roll back to cancel all the updating.

XML structure

```

<Package>
  <IssuUpgrade>
    <Action></Action>
    <Timeout></Timeout>
    <Delay></Delay>
  </IssuUpgrade>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IssuUpgrade

Table type	Single-instance
Row name	None
Restrictions	Mostly Action should following step test->install->done, "done" can only set after the previous action have finished successfully or failure.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify step to update the system, action of test must be done before install begin.	N/A	Enumeration: 1—none 2—test 3—install 4—rollback 5—done	Action of "none" will be simply be ignored, "test" can collect all information about which way the system will be updated, "install" will start to update the system, "rollback" will cancel all the updating and roll back to the original software versions, "done" will clear all update information and set "Action" and "Status" to "none".
Timeout	Specify the limit time to update the system, 0 is unlimited.		Unsigned integer. Value range: 0 to 120. Unit: minute.	N/A
Delay	Time that the system waits before starting the ISSU.		Unsigned integer. Value range: 0 to 1440. Unit: minute.	N/A

Package/AddIPE

This table contains information to decompress a .ipe image file to several .bin image files.

XML structure

```

<Package>
  <AddIPE>
    <IPEFileName></IPEFileName>
    <StorageCard></StorageCard>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </AddIPE>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	AddIPE
Table type	Single-instance
Row name	None
Restrictions	An .ipe image file must already exist in the root directory of storage medium. Mostly an image file path is in the format of storage-medium:/base-filename.ipe, you can also include the IRF member ID or slot number information in front of the storage medium segment to specify the node where the .ipe image file on.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPEFileName	Specifies the file path of an .ipe image package file.	N/A	String. Length: 1 to 127 characters.	N/A
StorageCard	Target storage medium to store the .bin image files.	N/A	String. Length: 1 to 63 characters.	You can include the IRF member ID or slot number information in front of the storage medium segment.
OverwriteLocalFile	Whether overwrite image file if Target storage medium already exist the .bin image file.	N/A	Boolean: - true - false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: - true - false	Optional column, if not specify default is false.

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Package

Package/BootLoaderList

This table contains information of startup software image files for special node.

XML structure

```
<Package>
  <BootLoaderList>
    <BootList>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <BootType></BootType>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </BootList>
  </BootLoaderList>
</Package>
```

Table description

Item	Description
Feature name	Package
Table name	BootLoaderList
Table type	Muti-instance
Row name	BootList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Specify a node of the system.	Data structure	Members include: - Chassis. - Slot. - CPUID.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
BootType	Specify the startup type	Index	Enumeration: 0—current running list 1—main next startup list. 2—backup next startup list.	Backup images are used only when main images are not available.
ImageFiles	List of startup image files.	Data structure	Members include: FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/ExtendStartupList

This table contains information about startup software image files stored on the device for security engines or PEXs

XML structure

```

<Package>
  <ExtendStartupList>
    <ExtendList>
      <Model></Model>
      <BootType></BootType>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </ExtendList>
  </ExtendStartupList>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	ExtendStartupList

Table type	Multi-instance
Row name	ExtendList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	PEX model or the security engine model.	Index	String. Length: 0 to 63 characters.	N/A
BootType	Specify the startup type	Index	Enumeration: 1—main next startup list. 2—backup next startup list.	Backup images are used only when main images are not available.
ImageFiles	List of startup image files.	Data structure	Members include: FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/IssuOpResult

This table contains information of the upgrading status of special node.

XML structure

```

<Package>
  <IssuOpResult>
    <OpResult>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <UpgradeType></UpgradeType>
      <DevStatus></DevStatus>
      <UpgradeStatus></UpgradeStatus>
      <FailedReason></FailedReason>
    </OpResult>
  </IssuOpResult>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IssuOpResult
Table type	Muti-instance
Row name	OpResult
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Indicate a node of the system.	Data structure	Members include: - Chassis. - Slot. - CPUID.	N/A
Chassis	Chassis of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	Cpu id of a node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
UpgradeType	Issu upgrde type of this node.	N/A	Enumeration: 1—none, indicate this node will not be updated. 2—reboot, indicate the upgrade type of this node is reboot. 3—sequenceReboot, indicate the upgrade type of this node is sequenceReboot. 4—issuReboot, indicate the upgrade type of this node is issuReboot. 5—serviceUpgrade, indicate the upgrade type of this node is serviceUpgrade. 6—fileUpgrade, indicate the upgrade type of this node is fileUpgrade. 7—incompatibleUpgrade, indicate the upgrade type of this node is incompatibleUpgrade.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DevStatus	Device status of this node.	N/A	Enumeration: 1—waiting, this node is waiting to upgrade. 2—inProcess, this node is updating. 3—success, this node have successfully updated. 4—failed, failed to update this node.	N/A
UpgradeStatus	Issu status of this node.	N/A	Enumeration: 1—init 2—loading 3—loaded 4—switching 5—switchover 6—committing 7—committed 8—rollbacking 9—rollbacked	N/A
FailedReason	Failed reason of this node.	N/A	String. Length: 1 to 192 characters.	Usefully only in failure.

Package/IssuMPUFileList

This table contains information of issu image files for MPUs .

XML structure

```

<Package>
  <IssuMPUFileList>
    <ImageFiles>
      <FileName></FileName>
    </ImageFiles>
    <OverwriteLocalFile></OverwriteLocalFile>
    <DeleteIPEFile></DeleteIPEFile>
  </IssuMPUFileList>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IssuMPUFileList
Table type	Single-instance

Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ImageFiles	List of issu image files for MPUs.	Data structure	Members include: FileName.	N/A
FileName	Name of a .bin or .ipe image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.
OverwriteLocalFile	Whether overwrite image files when copying.	N/A	Boolean: - true - false	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: - true - false	Optional column, if not specify default is false.

Package/IssuExtendFileList

This table contains information of issu image files for security engines or PEXs.

XML structure

```

<Package>
  <IssuExtendFileList>
    <IssuExtendFile>
      <Model></Model>
      <ImageFiles>
        <FileName></FileName>
      </ImageFiles>
    </IssuExtendFile>
  </IssuExtendFileList>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IssuExtendFileList

Table type	Multi-instance
Row name	IssuExtendFile
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Model	PEX model or the security engine model.	Index	String. Length: 1 to 63 characters.	N/A
ImageFiles	List of issu image files for security engines or PEXs.	Data structure	Members include: FileName.	N/A
FileName	Name of a .bin image file.	N/A	String. Length: 1 to 63 characters.	This column may not occur which mean no image files have set yet, or can repeat of up to 32.

Package/IssuUpgrade

This table contains information of the ISSU operating status. After starting to update the system, you can obtain ISSU operating status from this table, you can also get detain information of the upgrading status of each node from the table IssuOpResult.

XML structure

```

<Package>
  <IssuUpgrade>
    <Action></Action>
    <Timeout></Timeout>
    <Status></Status>
    <FailedReason></FailedReason>
    <Delay></Delay>
  </IssuUpgrade>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IssuUpgrade
Table type	Single-instance

Row name	None
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Specify step to update the system, action of test must be done before install begin.	N/A	Enumeration: 1—none 2—test 3—install 4—rollback	The Action “none” indicate the system has no did any ISSU operation, “test” means the system is testing all ISSU image files, “install” indicate the system is updating, “rollback” means the system is trying to roll back to the original software versions.
Timeout	The limit time to update the system, 0 is unlimited.	N/A	Unsigned integer. Value range: 0 to 120.	N/A
Status	Upgrading status of the system.	N/A	Enumeration: 1—none, system have not started to update. 2—failed, Action is failure. 3—inProgress, Action is in progress. 4—success, Action have successfully done. 5—rollbacking, roll back is in process. 6—rollbacked, successfully roll back to the original software versions.	N/A
FailedReason	Failed reason of the ISSU operation.	N/A	String. Length: 1 to 192 characters.	Usefully only in failure.
Delay	Time that the system waits before starting the ISSU.	N/A	Unsigned integer. Value range: 0 to 1440. Unit: minute.	N/A

Package/IPEInfo

This table contains information of all .ipe image package files in the system.

XML structure

<Package>

```

<IPEInfo>
  <InfoList>
    <IPEFileName></IPEFileName>
    <FileName></FileName>
    <Model></Model>
    <Type></Type>
    <Service></Service>
    <FilePlatVersion></FilePlatVersion>
    <FileProductVersion></FileProductVersion>
  </InfoList>
</IPEInfo>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	IPEInfo
Table type	Muti-instance
Row name	InfoList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPEFileName	.ipe image pckage file in the system.	Index	String. Length: 1 to 127 characters.	File name may include the IRF member ID or slot number information in front of the storage medium segment.
FileName	.bin image file which the .ipe image package file contained.	Index	String. Length: 1 to 63 characters.	N/A
Model	The PEX model or the security engine model, if the .bin image file blond to a PEX or security engine.	N/A	String. Length: 1 to 63 characters.	This column will not occur if the .bin image file belongs to MPUS.
Type	Specify the type of this .bin image file.	N/A	Enumeration: 0—bin 1—patch	“bin” means this is a normal .bin image file, “patch” means this is a patch image file.

Column name	Column description	Column type	Data type and restrictions	Remarks
Service	Specify the attribute of this .bin image file.	N/A	Enumeration: 1—boot 2—system 3—feature	N/A
FilePlatVersion	Platform version of this .bin image file.	N/A	String. Length: 1 to 63 characters.	N/A
FileProductVersion	Product version of this .bin image file.	N/A	String. Length: 1 to 63 characters.	N/A

Package/ImageLists

This table contains information of all the .bin image files in the system.

XML structure

```

<Package>
  <ImageLists>
    <ImageList>
      <FileName></FileName>
      <Model></Model>
      <Type></Type>
      <Service></Service>
      <FilePlatVersion></FilePlatVersion>
      <FileProductVersion></FileProductVersion>
    </ImageList>
  </ImageLists>
</Package>

```

Table description

Item	Description
Feature name	Package
Table name	ImageLists
Table type	Multi-instance
Row name	ImageList
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	.bin image file in the system.	Index	String. Length: 1 to 127 characters.	File name may include the IRF member ID or slot number information in front of the storage medium segment.
Model	The PEX model or the security engine model, if the .bin image file belongs to a PEX or security engine.	N/A	String. Length: 1 to 63 characters.	This column will not occur if the .bin image file belongs to MPUs.
Type	Specify the type of this .bin image file.	N/A	Enumeration: 0—bin 1—patch	“bin” means this is a normal .bin image file, “patch” means this is a patch image file.
Service	Specify the attribute of this .bin image file.	N/A	Enumeration: 1—boot 2—system 3—feature	N/A
FilePlatformVersion	Platform version of this .bin image file.	N/A	String. Length: 1 to 63 characters.	N/A
FileProductVersion	Product version of this .bin image file.	N/A	String. Length: 1 to 63 characters.	N/A

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XML structure.....	4
Table description	4
Columns	4

PasswordControl

PasswordControl/ClearAllBlackLists

Clear all users in the password control blacklist.

XML structure

```
<PasswordControl>
  <ClearAllBlackLists>
    <Clear></Clear>
  </ClearAllBlackLists>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	ClearAllBlackLists
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears all users in the blacklist.	N/A	This column must be empty.

PasswordControl/BlackLists

Clear a specific user from the blacklist.

XML structure

```
<PasswordControl>
  <BlackLists>
    <BlackList>
      <UserName></UserName>
      <Clear></Clear>
    </BlackList>
  </BlackLists>
</PasswordControl>
```

```

    </BlackList>
  </BlackLists>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	BlackLists
Table type	Multi-instance table
Row name	BlackList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserName	User name.	Index	String, case-sensitive. Length: 1 to 55 characters.
Clear	Clears the specified user from the blacklist.	N/A	This column must be empty.

PasswordControl/ClearAllHistoryRecords

Clear history password records for all local users or super roles.

XML structure

```

<PasswordControl>
  <ClearAllHistoryRecord>
    <Type></Type>
    <Clear></Clear>
  </ClearAllHistoryRecord>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	ClearAllHistoryRecord
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	History password record type.	N/A	Enumeration: 0—History password records for all local users. 1—History password records for all super roles.
Clear	Clears history password records.	N/A	This column must be empty.

PasswordControl/LocalUserHistoryRecords

Clear history password records for a local user.

XML structure

```

<PasswordControl>
  <LocalUserHistoryRecords>
    <LocalUserHistoryRecord>
      <UserName></UserName>
      <Clear></Clear>
    </LocalUserHistoryRecord>
  </LocalUserHistoryRecords>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	LocalUserHistoryRecords
Table type	Multi-instance table
Row name	LocalUserHistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
UserName	User name.	Index	String, case-sensitive. Length: 1 to 55 characters.
Clear	Clears history password records for the specified local user.	N/A	This column must be empty.

PasswordControl/SuperRoleHistoryRecords

Clear password history records for a super role.

XML structure

```
<PasswordControl>
  <SuperRoleHistoryRecords>
    <SuperRoleHistoryRecord>
      <RoleName></RoleName>
      <Clear></Clear>
    </SuperRoleHistoryRecord>
  </SuperRoleHistoryRecords>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	SuperRoleHistoryRecords
Table type	Multi-instance table
Row name	SuperRoleHistoryRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Role name.	Index	String, case-sensitive. Length: 1 to 63 characters.
Clear	Clears history password records for the specified user role.	N/A	This column must be empty.

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XML structure	10
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PasswordControl

PasswordControl/GlobalConfig

Global password control configuration information table.

XML structure

```
<PasswordControl>
  <GlobalConfig>
    <GlobalEnableState></GlobalEnableState>
    <Length>
      <State></State>
      <MinLength></MinLength>
    </Length>
    <Composition>
      <State></State>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
    <Aging>
      <State></State>
      <AgingTime></AgingTime>
    </Aging>
    <History>
      <State></State>
      <MaxHistoryNumber></MaxHistoryNumber>
    </History>
    <CheckSameChar></CheckSameChar>
    <CheckUserName></CheckUserName>
    <AlertTime></AlertTime>
    <IdleTime></IdleTime>
    <UpdateInterval></UpdateInterval>
    <Expired>
      <DelayTime></DelayTime>
      <TryTimes></TryTimes>
    </Expired>
    <Attempt>
      <FailTimes></FailTimes>
      <Action></Action>
      <LockTime></LockTime>
    </Attempt>
  </GlobalConfig>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEnableState	Whether to enable password control globally.	N/A	Boolean: - true. - false.	In non-FIPS mode, the default is false. In FIPS mode, the default is true.
Length	Minimum password length restriction policy.	Data structure	Members include: - State. - MinLength.	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: - true. - false.	Default: true.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, a password is a string of 4 to 32 characters. - In FIPS mode, a password is a string of 15 to 32 characters.	In non-FIPS mode, the default value is 10. In FIPS mode, the default value is 15.
Composition	Password composition restriction policy.	Data structure	Members include: - State. - TypeNumber. - PerTypeLen.	N/A
State	Whether to enable the password composition restriction feature.	N/A	Boolean: - true. - false.	Default: true.

Column name	Column description	Column type	Data type and restrictions	Remarks
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	In non-FIPS mode, the default value is 1. In FIPS mode, the default value is 4.
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column must be set together with the TypeNumber column.
Aging	Password expiration policy.	Data structure	Members include: - State. - AgingTime.	N/A
State	Whether a password expires.	N/A	Boolean: - true. - false.	Default: true.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
History	Password history record policy.	Data structure	Members include: - State. - MaxHistoryNumber.	N/A
State	Whether the device records previous passwords.	N/A	Boolean: - true. - false.	N/A
MaxHistoryNumber	Maximum number of history password records for each user.	N/A	Unsigned integer. Value range: 2 to 15.	Default: 4.
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.
CheckUsername	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
AlertTime	Number of days before a user password expires during which the user is notified of the pending password expiration.	N/A	Unsigned integer. Value range: 1 to 30, in days.	Default: 7 days.
IdleTime	Maximum account idle time.	N/A	Unsigned integer. Value range: 0 to 365, in days. The value 0 indicates that there is no restriction for the account idle time.	Default: 90 days.
UpdateInterval	Minimum password update interval.	N/A	Unsigned integer. Value range: 0 to 168, in hours.	Default: 24 hours.
Expired	Maximum number of days and maximum number of times that a user can log in after the password expires.	Data structure	Members include: - DelayTime. - TryTimes.	N/A
DelayTime	Maximum number of days that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 1 to 90, in days. This column must be set together with the TryTimes column.	Default: 30 days.
TryTimes	Maximum number of times that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 0 to 10. The value 0 indicates that a user can't log in after the password expires. This column must be set together with the DelayTime column.	Default: 3.
Attempt	Login attempt limit information.	Data structure	Members include: - FailTimes. - Action. - LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	Default: 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: • 0—lock. • 1—lock-time. • 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/UserGroups

Password control configuration information table for user groups.

XML structure

```

<PasswordControl>
  <UserGroups>
    <UserGroup>
      <UserGroupName></UserGroupName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
      </Attempt>
    </UserGroup>
  </UserGroups>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	UserGroups
Table type	Multi-instance table
Row name	UserGroup
Restrictions	The UserGroupName column must be from the table UserAccounts/UserGroups.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.
CheckUserName	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 32 characters. - In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
Composition	Password composition restriction policy.	Data structure	Members include: - TypeNumber. - PerTypeLen.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: - FailTimes. - Action. - LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: 0—lock. 1—lock-time. 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/Users

Password control configuration information table for users.

XML structure

```

<PasswordControl>
  <Users>
    <User>
      <UserName></UserName>
    
```

```

    <CheckSameChar></CheckSameChar>
    <CheckUserName></CheckUserName>
    <MinLength></MinLength>
    <AgingTime></AgingTime>
    <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
    </Composition>
    <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
    </Attempt>
</User>
</Users>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The UserName column must be from the table UserAccounts/Management/Accounts.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 55 characters.	Only support device management users.
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
CheckUserName	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 32 characters. - In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
Composition	Password composition restriction policy.	Data structure	Members include: - TypeNumber. - PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: - FailTimes. - Action. - LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: 0—lock. 1—lock-time. 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/Super

Password control configuration information table for temporary user role authorization.

XML structure

```

<PasswordControl>
  <Super>
    <MinLength></MinLength>
    <AgingTime></AgingTime>
    <Composition>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
  </Super>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	Super
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 63 characters. - In FIPS mode, the value range is 15 to 63 characters.	- In non-FIPS mode, the default value is 10. - In FIPS mode, the default value is 15.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
Composition	Password composition restriction policy.	Data structure	Members include: - TypeNumber. - PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	- In non-FIPS mode, the default value is 1. - In FIPS mode, the default value is 4.
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.

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PasswordControl

PasswordControl/GlobalConfig

Global password control configuration information table.

XML structure

```
<PasswordControl>
  <GlobalConfig>
    <GlobalEnableState></GlobalEnableState>
    <Length>
      <State></State>
      <MinLength></MinLength>
    </Length>
    <Composition>
      <State></State>
      <TypeNumber></TypeNumber>
      <PerTypeLen></PerTypeLen>
    </Composition>
    <Aging>
      <State></State>
      <AgingTime></AgingTime>
    </Aging>
    <History>
      <State></State>
      <MaxHistoryNumber></MaxHistoryNumber>
    </History>
    <CheckSameChar></CheckSameChar>
    <CheckUserName></CheckUserName>
    <AlertTime></AlertTime>
    <IdleTime></IdleTime>
    <UpdateInterval></UpdateInterval>
    <Expired>
      <DelayTime></DelayTime>
      <TryTimes></TryTimes>
    </Expired>
    <Attempt>
      <FailTimes></FailTimes>
      <Action></Action>
      <LockTime></LockTime>
    </Attempt>
  </GlobalConfig>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalEnableState	Whether to enable password control globally.	N/A	Boolean: - true. - false.	In non-FIPS mode, the default is false. In FIPS mode, the default is true.
Length	Minimum password length restriction policy.	Data structure	Members include: - State. - MinLength.	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: - true. - false.	Default: true.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, a password is a string of 4 to 32 characters. - In FIPS mode, a password is a string of 15 to 32 characters.	In non-FIPS mode, the default value is 10. In FIPS mode, the default value is 15.
Composition	Password composition restriction policy.	Data structure	Members include: - State. - TypeName. - PerTypeLen.	N/A
State	Whether to enable the password composition restriction feature.	N/A	Boolean: - true. - false.	Default: true.
TypeName	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	In non-FIPS mode, the default value is 1. In FIPS mode, the default value is 4.

Column name	Column description	Column type	Data type and restrictions	Remarks
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column must be set together with the TypeNumber column.
Aging	Password expiration policy.	Data structure	Members include: - State. - AgingTime.	N/A
State	Whether a password expires.	N/A	Boolean: - true. - false.	Default: true.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
History	Password history record policy.	Data structure	Members include: - State. - MaxHistoryNumber.	N/A
State	Whether the device records previous passwords.	N/A	Boolean: - true. - false.	Default: true.
MaxHistoryNumber	Maximum number of history password records for each user.	N/A	Unsigned integer. Value range: 2 to 15.	Default: 4.
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.
CheckUsername	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.
AlertTime	Number of days before a user password expires during which the user is notified of the pending password expiration.	N/A	Unsigned integer. Value range: 1 to 30, in days.	Default: 7 days.

Column name	Column description	Column type	Data type and restrictions	Remarks
IdleTime	Maximum account idle time.	N/A	Unsigned integer. Value range: 0 to 365, in days. The value 0 indicates that there is no restriction for the account idle time.	Default: 90 days.
UpdateInterval	Minimum password update interval.	N/A	Unsigned integer. Value range: 0 to 168, in hours.	Default: 24 hours.
Expired	Maximum number of days and maximum number of times that a user can log in after the password expires.	Data structure	Members include: - DelayTime. - TryTimes.	N/A
DelayTime	Maximum number of days that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 1 to 90, in days. This column must be set together with the TryTimes column.	Default: 30 days.
TryTimes	Maximum number of times that a user can log in after the password expires.	N/A	Unsigned integer. Value range: 0 to 10. The value 0 indicates that a user can't log in after the password expires. This column must be set together with the DelayTime column.	Default: 3.
Attempt	Login attempt limit information.	Data structure	Members include: - FailTimes. - Action. - LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	Default: 3.
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: 0—lock. 1—lock-time. 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/UserGroups

Password control configuration information table for user groups.

XML structure

```

<PasswordControl>
  <UserGroups>
    <UserGroup>
      <UserGroupName></UserGroupName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
        <Action></Action>
        <LockTime></LockTime>
      </Attempt>
    </UserGroup>
  </UserGroups>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	UserGroups
Table type	Multi-instance table
Row name	UserGroup

Item	Description
Restrictions	The UserGroupName column must be from the table UserAccounts/UserGroups.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserGroupName	User group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.
CheckUserName	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 32 characters. - In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
Composition	Password composition restriction policy.	Data structure	Members include: - TypeName. - PerTypeLen.	N/A
TypeName	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeName column is set.

Column name	Column description	Column type	Data type and restrictions	Remarks
Attempt	Login attempt limit information.	Data structure	Members include: - FailTimes. - Action. - LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: 0—lock. 1—lock-time. 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/Users

Password control configuration information table for users.

XML structure

```

<PasswordControl>
  <Users>
    <User>
      <UserName></UserName>
      <CheckSameChar></CheckSameChar>
      <CheckUserName></CheckUserName>
      <MinLength></MinLength>
      <AgingTime></AgingTime>
      <Composition>
        <TypeNumber></TypeNumber>
        <PerTypeLen></PerTypeLen>
      </Composition>
      <Attempt>
        <FailTimes></FailTimes>
      </Attempt>
    </User>
  </Users>
</PasswordControl>

```

```

        <Action></Action>
        <LockTime></LockTime>
    </Attempt>
</User>
</Users>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The UserName column must be from the table UserAccounts/Management/Accounts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 55 characters.	Only support device management users.
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: - true. - false.	Default: false.
CheckUserName	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: - true. - false.	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 32 characters. - In FIPS mode, the value range is 15 to 32 characters.	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Composition	Password composition restriction policy.	Data structure	Members include: • TypeNumber. • PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 4. • In FIPS mode, the value must be 4.	N/A
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. • In non-FIPS mode, the value range is 1 to 63. • In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.
Attempt	Login attempt limit information.	Data structure	Members include: • FailTimes. • Action. • LockTime.	N/A
FailTimes	Maximum number of consecutive login failures.	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: • 0—lock. • 1—lock-time. • 2—unlock. This column must be set together with the FailTimes column. If the value is 1, the LockTime column must also be set.	Default: 1.
LockTime	Time period for disabling a user account.	N/A	Unsigned integer. Value range: 1 to 360, in minutes. This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	Default: 1 minute.

PasswordControl/Super

Password control configuration information table for temporary user role authorization.

XML structure

```
<PasswordControl>
```

```

<Super>
  <MinLength></MinLength>
  <AgingTime></AgingTime>
  <Composition>
    <TypeNumber></TypeNumber>
    <PerTypeLen></PerTypeLen>
  </Composition>
</Super>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	Super
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum password length.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 4 to 63 characters. - In FIPS mode, the value range is 15 to 63 characters.	- In non-FIPS mode, the default value is 10. - In FIPS mode, the default value is 15.
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	Default: 90 days.
Composition	Password composition restriction policy.	Data structure	Members include: - TypeNumber. - PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 4. - In FIPS mode, the value must be 4.	- In non-FIPS mode, the default value is 1. - In FIPS mode, the default value is 4.
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. - In non-FIPS mode, the value range is 1 to 63. - In FIPS mode, the value range is 1 to 15.	Default: 1. This column takes effect only when the TypeNumber column is set.

PasswordControl/BlackLists

Password control blacklist information table.

XML structure

```
<PasswordControl>
  <BlackLists>
    <BlackList>
      <UserName></UserName>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <LoginFailures></LoginFailures>
      <LockState></LockState>
    </BlackList>
  </BlackLists>
</PasswordControl>
```

Table description

Item	Description
Feature name	PasswordControl
Table name	BlackLists
Table type	Multi-instance table
Row name	BlackList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 55 characters.	Only support device management users.
IpType	IP address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
LoginFailures	Login failure times.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LockState	Whether the user account is disabled for the user.	N/A	Enumeration: 0—unlock. The user is allowed to continue using this account to perform login attempts. 1—lock. The user account is disabled temporarily or permanently, depending on the value of the Attempt column in the table PasswordControl/GlobalConfig, PasswordControl/UserGroups, or PasswordControl/Users.	N/A

PasswordControl/Specification

The value range change information table for password control configuration items. The value ranges for these items are different in FIPS and non-FIPS modes.

XML structure

```

<PasswordControl>
  <Specification>
    <MinLength></MinLength>
    <MinTypeNumber></MinTypeNumber>
    <MaxPerTypeLen></MaxPerTypeLen>
  </Specification>
</PasswordControl>

```

Table description

Item	Description
Feature name	PasswordControl
Table name	Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLength	Minimum value for the MinLength column in the tables PasswordControl /GlobalConfig, PasswordControl /UserGroups, PasswordControl /Users, and PasswordControl /Super.	N/A	Unsigned integer. - In FIPS mode, the value is 15. - In non-FIPS mode, the value is 4.	N/A
MinTypeNumber	Minimum value for the TypeNumber column in the tables PasswordControl /GlobalConfig, PasswordControl /UserGroups, PasswordControl /Users, and PasswordControl /Super.	N/A	Unsigned integer. - In FIPS mode, the value is 4. - In non-FIPS mode, the value is 1.	N/A
MaxPerTypeLen	Maximum value for the PerTypeLen column in the tables PasswordControl /GlobalConfig, PasswordControl /UserGroups, PasswordControl /Users, and PasswordControl /Super.	N/A	Unsigned integer. - In FIPS mode, the value is 15. - In non-FIPS mode, the value is 63.	N/A

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PBR

PBR/PBRPolicyNode

This table contains policy node information.

XML structure

```
<PBR>
  <PBRPolicyNode>
    <PolicyNode>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyContinue></ApplyContinue>
    </PolicyNode>
  </PBRPolicyNode>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRPolicyNode
Table type	Multi-instance table
Row name	PolicyNode
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	A smaller number has a higher priority. The value range for the node-number argument depends on the device model.
Mode	Match mode.	N/A	Enumeration: 1—Permit (default). 2—Deny.	N/A
ACLNumber	ACL match criterion by number.	N/A	Unsigned integer. Value range: 2000 to 3999.	To delete an ACL match criterion, you must configure the ACLNumber together with the ACLName column. The ACL name must start with letter <i>a</i> to <i>z</i> or <i>A</i> to <i>Z</i> . The ACL name cannot be all in any combination of upper- and lower-case letters.
ACLName	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	To delete an ACL match criterion, you must configure the ACLName together with the ACLNumber column.
MatchVxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
MatchPacketLenMin	Minimum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	It must be configured together with the MatchPacketLenMax column. The packet length range includes boundary values. Support for this function depends on the device

Column name	Column description	Column type	Data type and restrictions	Remarks
				model.
MatchPacketLenMax	Maximum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	It must be configured together with the MatchPacketLenMin column. The value of MatchPacketLenMax must be no less than the value of MatchPacketLenMin. Support for this function depends on the device model.
ApplyPrecedence	Sets an IP precedence for matching packets.	N/A	Enumeration: • 0—Routine. • 1—Priority. • 2—Immediate. • 3—Flash. • 4—Flash-override. • 5—Critical. • 6—Internet. • 7—Network.	Support for this function depends on the device model.
ApplyIPDF	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Enumeration: • 0—Allows packet fragmentation. • 1—Prohibits packet fragmentation.	Support for this function depends on the device model.
ApplyContinue	Compares packets with the next node upon failure on the current node.	N/A	Boolean: • true • false (default).	This function takes effect only when the match mode of the node is permit. Support for this function depends on the device model.

PBR/PBRIfPolicy

This table contains interface PBR information.

XML structure

```

<PBR>
  <PBRIfPolicy>
    <IfPolicy>
      <AddressType></AddressType>

```

```

    <IfIndex></IfIndex>
    <PolicyName></PolicyName>
  </IfPolicy>
</PBRIfPolicy>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRIfPolicy
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist. The delete and remove operations do not support this column.

PBR/PBRApplyNextHop

This table contains PBR next hop information.

XML structure

```
<PBR>
  <PBRApplyNexthop>
    <ApplyNexthop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <VrfIndex></VrfIndex>
      <IpAddress></IpAddress>
      <TrackID></TrackID>
      <NexthopDirect></NexthopDirect>
    </ApplyNexthop>
  </PBRApplyNexthop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyNexthop
Table type	Multi-instance table
Row name	ApplyNexthop
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: • 0—Next hop. • 1—Default next hop.	Mirroring next hop not support NexthopDirect column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—Mirror to next hop.	
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	The value of 0 specifies the public network. The value of 65535 specifies the VPN instance where the inbound interface belongs. Support for setting 65535 depends on the device model.
IpAddress	IP address of the next hop.	Index	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.
TrackID	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.
NextHopDirect	Specifies whether the next hop must be directly connected.	N/A	Boolean: - true - false (default).	N/A

PBR/PBRApplyOutInterface

This table contains PBR output interface information.

XML structure

```

<PBR>
  <PBRApplyOutInterface>
    <ApplyOutInterface>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <TrackID></TrackID>
    </ApplyOutInterface>
  </PBRApplyOutInterface>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyOutInterface
Table type	Multi-instance table
Row name	ApplyOutInterface
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Output interface mode.	Index	Enumeration: • 0—Output interface. • 1—Default output interface.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The output interface must be P2P type. Using a non-P2P output interface can result in forwarding failures when the interface has multiple next hops. Non-P2P interfaces include broadcast and NBMA interfaces such as Ethernet and virtual-template interfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No track entry number as default.

PBR/PBRApplyAccessVPN

This table contains PBR access VPN instance information.

XML structure

```

<PBR>
  <PBRApplyAccessVPN>
    <ApplyAccessVPN>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
    </ApplyAccessVPN>
  </PBRApplyAccessVPN>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyAccessVPN
Table type	Multi-instance table
Row name	ApplyAccessVPN
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—IPv6.	
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	N/A

PBR/PBRLocalPolicy

This table contains local PBR information.

XML structure

```

<PBR>
  <PBRLocalPolicy>
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
  </PBRLocalPolicy>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRLocalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6PolicyName	Name of the policy used by IPv6 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplicationGroup

This table contains PBR application group information.

XML structure

```

<PBR>
  <PBRApplicationGroup>
    <ApplicationGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <AppGroupName></AppGroupName>
    </ApplicationGroup>
  </PBRApplicationGroup>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplicationGroup
Table type	Multi-instance table
Row name	ApplicationGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
AppGroupName	Application group name.	Index	String, case insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The name cannot be invalid or other in any combination of upper- and lower-case letters.

PBR/PBRObjectGroup

This table contains PBR object group information.

XML structure

```

<PBR>
  <PBRObjectGroup>
    <ObjectGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <ObjectGroupName></ObjectGroupName>
    </ObjectGroup>
  </PBRObjectGroup>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRObjectGroup
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
ObjectGroupName	Object group name.	Index	String, case insensitive. Length: 1 to 31 characters.	The specified object group must be a service object group type.

PBR/PBREgressIfPolicy

This table contains egress interface PBR information.

XML structure

```
<PBR>
  <PBREgressIfPolicy>
    <EgressIfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </EgressIfPolicy>
  </PBREgressIfPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBREgressIfPolicy
Table type	Multi-instance table
Row name	EgressIfPolicy
Restrictions	This table supports only VXLAN mode tunnel interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist. The delete and remove operations do not support this column.

PBR/PBRMatchServiceChain

This table contains PBR object match service chain information.

XML structure

```
<PBR>
  <PBRMatchServiceChain>
    <MatchServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
      <PathIndex></PathIndex>
    </MatchServiceChain>
  </PBRMatchServiceChain>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRMatchServiceChain

Table type	Multi-instance table
Row name	MatchServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

PBR/PBRApplyServiceChain

This table contains PBR object apply service chain information.

XML structure

```

<PBR>
  <PBRApplyServiceChain>
    <ApplyServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
      <PathIndex></PathIndex>
    </ApplyServiceChain>
  </PBRApplyServiceChain>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyServiceChain
Table type	Multi-instance table
Row name	ApplyServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

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PBR

PBR/PBRPolicyNode

This table contains policy node information.

XML structure

```
<PBR>
  <PBRPolicyNode>
    <PolicyNode>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyContinue></ApplyContinue>
    </PolicyNode>
  </PBRPolicyNode>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRPolicyNode
Table type	Multi-instance table
Row name	PolicyNode
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0—IPv4. 1—IPv6.	
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	N/A
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	A smaller number has a higher priority. The value range for the node-number argument depends on the device model.
Mode	Match mode.	N/A	Enumeration: 1—Permit. 2—Deny.	N/A
ACLNumber	ACL match criterion by number.	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
ACLName	ACL match criterion by name.	N/A	String, case insensitive. Length: 1 to 63 characters.	The ACL name must start with letter a to z or A to Z. The ACL name cannot be all in any combination of upper- and lower-case letters.
MatchVxlanID	VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
MatchPacketLenMin	Minimum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	The packet length range includes boundary values. Support for this function depends on the device model.
MatchPacketLenMax	Maximum IP packet length for a packet length match criterion.	N/A	Unsigned integer. Value range: 1 to 65535 bytes.	The value of MatchPacketLenMax must be no less than the value of MatchPacketLenMin. Support for this function depends on the device model.
ApplyPrecedence	Sets an IP precedence for matching packets.	N/A	Enumeration: 0—Routine. 1—Priority. 2—Immediate. 3—Flash. 4—Flash-override.	Support for this function depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 5—Critical. • 6—Internet. • 7—Network.	
			Enumeration:	
ApplyIPDF	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	• 0—Allows packet fragmentation. • 1—Prohibits packet fragmentation. • 2—DF bit is not set.	Support for this function depends on the device model.
			Boolean:	
ApplyContinue	Compares packets with the next node upon failure on the current node.	N/A	• true—Apply. • false—Not apply.	This function takes effect only when the match mode of the node is permit. Support for this function depends on the device model.

PBR/PBRIfPolicy

This table contains interface PBR information.

XML structure

```

<PBR>
  <PBRIfPolicy>
    <IfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </IfPolicy>
  </PBRIfPolicy>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRIfPolicy
Table type	Multi-instance table
Row name	IfPolicy
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplyNexthop

This table contains PBR next hop information.

XML structure

```
<PBR>
  <PBRApplyNexthop>
    <ApplyNexthop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <VrfIndex></VrfIndex>
      <IpAddress></IpAddress>
      <Priority></Priority>
      <TrackID></TrackID>
      <NexthopDirect></NexthopDirect>
    </ApplyNexthop>
  </PBRApplyNexthop>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyNexthop
Table type	Multi-instance table
Row name	ApplyNexthop
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Next hop mode.	Index	Enumeration: 0—Next hop. 1—Default next hop. 2—Mirror to next hop.	Mirroring next hop not support NexthopDirect column.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	The value of 0 specifies the public network. The value of 65535 specifies the VPN instance where the inbound interface belongs. Support for setting 65535 depends on the device model.
IpAddress	IP address of the next hop.	Index	String, case insensitive. Length: 1 to 45 characters.	Specify an IPv4 address or IPv6 address depending on AddressType.
Priority	Priority of the next hop.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.
NexthopDirect	Specifies whether the next hop must be directly connected.	N/A	Boolean: - true—Apply. - false—Not apply.	N/A

PBR/PBRApplyOutInterface

This table contains PBR output interface information.

XML structure

```
<PBR>
  <PBRApplOutInterface>
    <ApplyOutInterface>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <TrackID></TrackID>
    </ApplyOutInterface>
  </PBRApplOutInterface>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplOutInterface
Table type	Multi-instance table
Row name	ApplyOutInterface
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
Mode	Output interface mode.	Index	Enumeration: • 0—Output interface. • 1—Default output interface.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The output interface must

Column name	Column description	Column type	Data type and restrictions	Remarks
				be P2P type. Using a non-P2P output interface can result in forwarding failures when the interface has multiple next hops. Non-P2P interfaces include broadcast and NBMA interfaces such as Ethernet and virtual-template interfaces.
Priority	Priority of the output interface.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.
TrackID	Track entry number.	N/A	Unsigned integer. Value range: 1 to 1024.	No default track entry number exists.

PBR/PBRApplyAccessVPN

This table contains PBR access VPN instance information.

XML structure

```

<PBR>
  <PBRApplyAccessVPN>
    <ApplyAccessVPN>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <VrfIndex></VrfIndex>
      <Priority></Priority>
    </ApplyAccessVPN>
  </PBRApplyAccessVPN>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyAccessVPN
Table type	Multi-instance table
Row name	ApplyAccessVPN
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	N/A
Priority	Priority of the VPN instance.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRLocalPolicy

This table contains local PBR information.

XML structure

```
<PBR>
  <PBRLocalPolicy>
    <Ipv4PolicyName></Ipv4PolicyName>
    <Ipv6PolicyName></Ipv6PolicyName>
  </PBRLocalPolicy>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRLocalPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4PolicyName	Name of the policy used by IPv4 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.
Ipv6PolicyName	Name of the policy used by IPv6 local PBR.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRApplicationGroup

This table contains PBR application group information.

XML structure

```
<PBR>
  <PBRApplicationGroup>
    <ApplicationGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <AppGroupName></AppGroupName>
      <Priority></Priority>
    </ApplicationGroup>
  </PBRApplicationGroup>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplicationGroup
Table type	Multi-instance table
Row name	ApplicationGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
AppGroupName	Application group name.	Index	String, case insensitive. Length: 1 to 63 characters.	Valid characters include digits, letters, hyphens (-), and underlines (_). The name cannot be invalid or other in any combination of upper- and lower-case letters.
Priority	Priority of the application group.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRObjectGroup

This table contains PBR object group information.

XML structure

```
<PBR>
  <PBRObjectGroup>
    <ObjectGroup>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <ObjectGroupName></ObjectGroupName>
      <Priority></Priority>
    </ObjectGroup>
  </PBRObjectGroup>
</PBR>
```

Table description

Item	Description
Feature name	PBR
Table name	PBRObjectGroup
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	Support for this table depends on the device model.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
ObjectGroupName	Object group name.	Index	String, case insensitive. Length: 1 to 31 characters.	The specified object group must be a service object group.
Priority	Priority of the object group.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBR Specification

This table contains PBR specification information.

XML structure

```
<PBR>
  <PBRSpecification>
    <SupportInboundVPNIPv4></SupportInboundVPNIPv4>
    <SupportOnlyNull0IPv4></SupportOnlyNull0IPv4>
    <SupportIPDFIPv4></SupportIPDFIPv4>
    <SupportPacketLenIPv4></SupportPacketLenIPv4>
    <SupportPrecedenceIPv4></SupportPrecedenceIPv4>
```



```

<SupportContinueIpv4></SupportContinueIpv4>
<SupportNextHopIpv4></SupportNextHopIpv4>
<SupportDefNextHopIpv4></SupportDefNextHopIpv4>
<SupportInterfaceIpv4></SupportInterfaceIpv4>
<SupportDefInterfaceIpv4></SupportDefInterfaceIpv4>
<SupportAccessVPNIpv4></SupportAccessVPNIpv4>
<SupportInboundVPNIPv6></SupportInboundVPNIPv6>
<SupportOnlyNull0IPv6></SupportOnlyNull0IPv6>
<SupportPacketLenIPv6></SupportPacketLenIPv6>
<SupportPrecedenceIPv6></SupportPrecedenceIPv6>
<SupportContinueIPv6></SupportContinueIPv6>
<SupportNextHopIPv6></SupportNextHopIPv6>
<SupportDefNextHopIPv6></SupportDefNextHopIPv6>
<SupportInterfaceIPv6></SupportInterfaceIPv6>
<SupportDefInterfaceIPv6></SupportDefInterfaceIPv6>
<SupportAccessVPNIPv6></SupportAccessVPNIPv6>
<MaxNodeIDIPv4></MaxNodeIDIPv4>
<MaxNodeIDIPv6></MaxNodeIDIPv6>
<MaxNextHopIPv4></MaxNextHopIPv4>
<MaxInterfaceIPv4></MaxInterfaceIPv4>
<MaxAccessVPNIPv4></MaxAccessVPNIPv4>
<MaxNextHopIPv6></MaxNextHopIPv6>
<MaxInterfaceIPv6></MaxInterfaceIPv6>
<MaxAccessVPNIPv6></MaxAccessVPNIPv6>
<SupportAppGroupIPv4></SupportAppGroupIPv4>
<SupportObjectGroupIPv4></SupportObjectGroupIPv4>
<MaxAppGroupIPv4></MaxAppGroupIPv4>
<MaxObjectGroupIPv4></MaxObjectGroupIPv4>
</PBRSpecification>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportInbo	Support for	N/A	Boolean:	N/A

undVPNIpv4	specifying the IPv4 VPN instance where the inbound interface belongs.		• true—Support. • false—Not support.	
SupportOnlyNullIpv4	Supports only the NULL 0 interface as the IPv4 output interface.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportIPDFIpv4	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportPacketLenIpv4	Support for IPv4 packet length match criteria.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportPrecedenceIpv4	Support for setting the precedence for IPv4 packets.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportContentIpv4	Support for comparing IPv4 packets with the next node upon failure on the current node.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportNextHopIpv4	Support for IPv4 next hops.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDefaultNextHopIpv4	Support for IPv4 default next hops.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportInterfaceIpv4	Support for IPv4 output interfaces.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportDefaultInterfaceIpv4	Support for IPv4 default output interfaces.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportAccessVPNIpv4	Support for IPv4 VPN instances.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportInboundVPNIpv6	Support for specifying the IPv6 VPN instance where the inbound interface belongs.	N/A	Boolean: • true—Support. • false—Not support.	N/A
SupportOnlyNullIpv6	Supports only the NULL 0 interface as the IPv6 output	N/A	Boolean: • true—Support. • false—Not support.	N/A

	interface.				
SupportPacketLenIpv6	Support for IPv6 packet length match criteria.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportPrecedenceIpv6	Support for setting the precedence for IPv6 packets.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportContinueIpv6	Support for comparing IPv6 packets against the next node upon failure on the current node.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportNextHopIpv6	Support for IPv6 next hops.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportDefaultNextHopIpv6	Support for IPv6 default next hops.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportInterfaceIpv6	Support for IPv6 output interfaces.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportDefaultInterfaceIpv6	Support for IPv6 default output interfaces.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
SupportAccessVPNIpv6	Support for IPv6 VPN instances.	N/A	Boolean:	• true—Support. • false—Not support.	N/A
MaxNodeIDIpv4	Maximum number of IPv4 nodes.	N/A	Unsigned integer.	Value range: 0 to 65535.	N/A
MaxNodeIDIpv6	Maximum number of IPv6 nodes.	N/A	Unsigned integer.	Value range: 0 to 65535.	N/A
MaxNextHopIpv4	Maximum number of IPv4 next hops or default next hops.	N/A	Unsigned integer.		N/A
MaxInterfaceIpv4	Maximum number of IPv4 output interfaces or default output interfaces.	N/A	Unsigned integer.		N/A
MaxAccessVPNIpv4	Maximum number of IPv4 VPN instances.	N/A	Unsigned integer.		N/A
MaxNextHopIpv6	Maximum number of IPv6 next hops	N/A	Unsigned integer.		N/A

	or default next hops.			
MaxInterfaceIpv6	Maximum number of IPv6 output interfaces or default output interfaces.	N/A	Unsigned integer.	N/A
MaxAccessVPNIpv6	Maximum number of IPv6 VPN instances.	N/A	Unsigned integer.	N/A
SupportApplicationGroupIpv4	Support for IPv4 application group.	N/A	Boolean: true—Support. false—Not support.	N/A
SupportObjectGroupIpv4	Support for IPv4 object group.	N/A	Boolean: true—Support. false—Not support.	N/A
MaxApplicationGroupIpv4	Maximum number of IPv4 application group.	N/A	Unsigned integer.	N/A
MaxObjectGroupIpv4	Maximum number of IPv4 object group.	N/A	Unsigned integer.	N/A

PBR/PBREgressIfPolicy

This table contains egress interface PBR information.

XML structure

```

<PBR>
  <PBREgressIfPolicy>
    <EgressIfPolicy>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <PolicyName></PolicyName>
    </EgressIfPolicy>
  </PBREgressIfPolicy>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBREgressIfPolicy
Table type	Multi-instance table

Row name	EgressIfPolicy
Restrictions	This table supports only VXLAN mode tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
PolicyName	Policy name.	N/A	String, case sensitive. Length: 1 to 19 characters.	The specified policy must already exist.

PBR/PBRMatchServiceChain

This table contains PBR object match service chain information.

XML structure

```

<PBR>
  <PBRMatchServiceChain>
    <MatchServiceChain>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <PathID></PathID>
      <PathIndex></PathIndex>
      <Priority></Priority>
    </MatchServiceChain>
  </PBRMatchServiceChain>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRMatchServiceChain
Table type	Multi-instance table
Row name	MatchServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: • 0—IPv4. • 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the service chain.	N/A	Unsigned integer. Value range: 0 to 65535.	The smaller the value, the higher the priority.

PBR/PBRApplyServiceChain

This table contains PBR object apply service chain information.

XML structure

```
<PBR>
  <PBRApplyServiceChain>
    <ApplyServiceChain>
      <AddressType></AddressType>
```

```

    <PolicyName></PolicyName>
    <NodeID></NodeID>
    <PathID></PathID>
    <PathIndex></PathIndex>
  </ApplyServiceChain>
</PBRApplServiceChain>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplServiceChain
Table type	Multi-instance table
Row name	ApplyServiceChain
Restrictions	Support for this table depends on the device model.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: 0—IPv4. 1—IPv6.	IPv6 is not supported.
PolicyName	Policy name.	Index	String. Length: 1 to 19 characters.	The specified policy must already exist.
NodeID	Policy node number.	Index	Unsigned integer. Value range: 0 to 65535.	The specified node must already exist.
PathID	Service-Chain Path-ID	Index	Unsigned integer. Value range: 1 to 16777215.	N/A
PathIndex	Service-Chain Path-Index	N/A	Unsigned integer. Value range: 1 to 255.	N/A

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XML structure	3
Table description	3
Columns	3

PCAPWARE

PCAPWARE/StartCapture

This table contains information about starting the packet capture.

XML structure

```
<PCAPWARE>
  <StartCapture>
    <ACL>
      <ACLType></ACLType>
      <ACLNumber></ACLNumber>
    </ACL>
    <Interface></Interface>
  </StartCapture>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	StartCapture
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ACL	Capture packets that match the specified ACL.	Data structure	Members include: - ACLType. - ACLNumber.
ACLType	ACL type.	N/A	Enumeration: 1—IPv4. 2—IPv6.
ACLNumber	ACL number.	N/A	Unsigned integer.
Interface	Capture packets on the specified interface.	N/A	String. Length: 2 to 47 characters.

PCAPWARE/StopCapture

This table contains information about stopping the packet capture.

XML structure

```
<PCAPWARE>
  <StopCapture>
    <Stop><Stop/>
  </StopCapture>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	StopCapture
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stop	Stop the capture	N/A	Enumeration: • 0—Stops the packet capture normally. • 1—Stops the packet capture immediately.	If this column is empty, packet capture is stopped normally.

PCAPWARE/DelCapFiles

This table contains information about deleting specific .cap files.

XML structure

```
<PCAPWARE>
  <DelCapFiles>
    <DelCapFile>
      <FileName></FileName>
    </DelCapFile>
  </DelCapFiles>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	DelCapFiles
Table type	Multi-instance table
Row name	DelCapFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Name of the .cap file to be deleted.	Index	String. Length: 1 to 253 characters.

PCAPWARE/DelAllCapFile

This table contains information about deleting all .cap files.

XML structure

```
<PCAPWARE>  
  <DelAllCapFile>  
    <Delete/>  
  </DelAllCapFile>  
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	DelAllCapFile
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Delete	Delete all .cap	N/A	This column must be empty.

Column name	Column description	Column type	Data type and restrictions
	files.		

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PCAPWARE

PCAPWARE /GlobalConf

This table contains pcapware global configuration information.

XML structure

```
<PCAPWARE>
  <GlobalConf>
    <MaxBytes></MaxBytes>
    <MaxPktsPerFile></MaxPktsPerFile>
    <Storage>
      <Type></Type>
      <LocalSpaceLimit></LocalSpaceLimit>
      <Path></Path>
      <Username></Username>
      <Password></Password>
      <PassType></PassType>
    </Storage>
  </GlobalConf>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBytes	Maximum number of bytes per packet.	N/A	Unsigned integer. Value range: 512 to 4096. Default: 512.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxPktsPerFile	Maximum number of packets per file.	N/A	Unsigned integer. Value range: 100 to 1000. Default: 100.	N/A
Storage	Storage information of the .cap file.	Data structure	Members include: - Type. - Path. - User. - Password. - LocalPacketLimit.	N/A
Type	Storage type of the .cap file.	N/A	Enumeration: 1—Local(Default). 2—Remote.	N/A
LocalSpaceLimit	Maximum space available for local packets, in KB.	N/A	Unsigned integer. Value range: 1024 to 10240. Default: 4096.	This column is empty if storage type is remote.
Path	Storage path of the .cap file.	N/A	String. Length: 1 to 253 characters.	This column is empty if storage type is local.
Username	Authentication username.	N/A	String. Length: 1 to 255 characters.	This column is empty if no authentication is required.
Password	Authentication password.	N/A	String. Length: 1 to 373 characters.	This column is empty if no authentication is required.
PassType	The type of authentication password.	N/A	Enumeration: 1—Simple. 2—Cipher.	

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XML structure	4
Table description	4
Columns	4
PCAPWARE/CaptureProgress	4
XML structure	5
Table description	5
Columns	5

PCAPWARE

PCAPWARE/GlobalConf

This table contains pcapware global information.

XML structure

```
<PCAPWARE>
  <GlobalConf>
    <MaxBytes></MaxBytes>
    <MaxPktsPerFile></MaxPktsPerFile>
    <Storage>
      <Type></Type>
      <LocalSpaceLimit></LocalSpaceLimit>
      <Path></Path>
      <Username></Username>
      <Password></Password>
      <PassType></PassType>
    </Storage>
  </GlobalConf>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	GlobalConf
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBytes	Maximum number of bytes per packet.	N/A	Unsigned integer. Value range: 512 to 4096.	N/A
MaxPktsPerFile	Maximum number of packets per file.	N/A	Unsigned integer. Value range: 100 to 1000.	N/A
Storage	Storage information of the .cap file.	Data structure	Members include: Type.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- Path. - User. - Password. - LocalPacketLimit.	
Type	Storage type of the .cap file.	N/A	Enumeration: 1—Local. 2—Remote.	N/A
LocalSpaceLimit	Maximum space available for local packets, in KB.	N/A	Unsigned integer. Value range: 1024 to 10240.	This column is empty if storage type is remote.
Path	Storage path of the .cap file.	N/A	String. Length: 1 to 253 characters.	This column is empty if storage type is local.
Username	Authentication username.	N/A	String. Length: 1 to 255 characters.	This column is empty if no authentication is required.
Password	Authentication password.	N/A	String. Length: 1 to 373 characters.	This column is empty if no authentication is required.
PassType	The type of authentication password.	N/A	Enumeration: 1—Simple. 2—Cipher.	

PCAPWARE/UploadFiles

This table contains information about uploaded .cap files.

XML structure

```

<PCAPWARE>
  <UploadFiles>
    <UploadFile>
      <Sequence></Sequence>
      <UploadState></UploadState>
      <FileName></FileName>
    </UploadFile>
  </UploadFiles>
</PCAPWARE>

```

Table description

Item	Description
Feature name	PCAPWARE
Table name	UploadFiles
Table type	Multi-instance table
Row name	UploadFile

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions
Sequence	Sequence number of the .cap file.	Index	Unsigned integer.
UploadState	Whether the .cap file has been saved successfully.	N/A	Enumeration: 1—Succeeded. 2—Failed.
FileName	Name of the .cap file.	N/A	String. Length: 1 to 253 characters.

PCAPWARE/LocalFiles

This table contains information about local .cap files.

XML structure

```

<PCAPWARE>
  <LocalFiles>
    <LocalFile>
      <FileName></FileName>
      <FileSize></FileSize>
    </LocalFile>
  </LocalFiles>
</PCAPWARE>

```

Table description

Item	Description
Feature name	PCAPWARE
Table name	LocalFiles
Table type	Multi-instance table
Row name	LocalFile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FileName	Name of the .cap	Index	String.

Column name	Column description	Column type	Data type and restrictions
	file.		Length: 1 to 253 characters.
FileSize	Size of the .cap file, in bytes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.

PCAPWARE/CaptureState

This table contains packet capture status information.

XML structure

```
<PCAPWARE>
  <CaptureState>
    <State></State>
    <StateDetail></StateDetail>
  </CaptureState>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	CaptureState
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Packet capture status.	N/A	Boolean: true—Started. false—Stopped.
StateDetail	Detailed packet capture status.	N/A	Enumeration: 0—Stopped. 1—Started. 2—Saving captured packets.

PCAPWARE/CaptureProgress

This table contains information about the packet capture progress.

XML structure

```
<PCAPWARE>
  <CaptureProgress>
    <Percent></Percent>
  </CaptureProgress>
</PCAPWARE>
```

Table description

Item	Description
Feature name	PCAPWARE
Table name	CaptureProgress
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Percent	Percent of captured packets that have been saved.	N/A	Unsigned integer.

Contents

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PEX

PEX/PEXPorts

This table contains configuration of PEX ports.

Also available in stand-alone mode.

XML structure

```
<PEX>
  <PEXPorts>
    <PEXPort>
      <Port></Port>
      <Description></Description>
      <Interface>
        <IfName></IfName>
      </Interface>
      <Associate></Associate>
    </PEXPort>
  </PEXPorts>
</PEX>
```

Table description

Item	Description
Feature name	PEX
Table name	PEXPorts
Table type	Multi-instance table
Row name	PEXPort
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	PEX port number.	Index	Unsigned integer. Value range: MinPEXPortID to MaxPEXPortID	MinPEXPortID and MaxPEXPortID specification: Please reference to Comware V7 PEX NETCONF XML API Data Reference

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	PEX port description.	N/A	String. Length: 1 to 79.	Optional
Interface	Physical port of an PEX port.	Data structure	Members: IfName	Multi-instance
IfName	Interface name.	N/A	String. Length: 2 to 47 characters.	Physical port of an PEX port
Associate	Associated chassis ID or slot ID of the PEX port.	N/A	Unsigned integer. Value range: MinAssociateID to MaxAssociateID	IRF (distributed): chassis ID Other: slot ID MinAssociateID and MaxAssociateID specification: Please reference to Comware V7 PEX NETCONF XML API Data Reference. Caution: PEX will reboot when the associated ID is modified.

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XML structure	2
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Columns	3

PEX

PEX/Capability

This table contains capabilities of PEX.

Also available in stand-alone mode.

XML structure

```
<PEX>
  <Capability>
    <MinPEXPortID></MinPEXPortID>
    <MaxPEXPortID></MaxPEXPortID>
    <MinAssociateID></MinAssociateID>
    <MaxAssociateID></MaxAssociateID>
    <MaxIfNumPerPEXPort></MaxIfNumPerPEXPort>
    <SupportedIfTypes>
      <ifTypeExt></ifTypeExt>
    </SupportedIfTypes>
  </Capability>
</PEX>
```

Table description

Item	Description
Feature name	PEX
Table name	Capability
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinPEXPortID	Minimum PEX port number	N/A	Unsigned integer.	N/A
MaxPEXPortID	Maximum PEX port number	N/A	Unsigned integer.	N/A
MinAssociateID	Minimum associate ID	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxAssociate ID	Maximum associate ID	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID
MaxIfNumPer PEXPort	Maximum interface count in a PEX port	N/A	Unsigned integer.	N/A
SupportedIfTypes	Indicates which physical interface type can be added to PEX port.	Data structure	Members: ifTypeExt	Multi-instance.
ifTypeExt	The physical interface type.	N/A	Unsigned integer.	ifTypeExt is referenced from Interfaces table in Ifmgr NETCONF XML API, XPath is Ifmgr/Interfaces/Interface/ifTypeExt. Please reference to <i>Comware V7 Ifmgr NETCONF XML API Data Reference</i> .

PEX/PEXPorts

This table contains configuration of PEX ports.

Also available in stand-alone mode.

XML structure

```

<PEX>
  <PEXPorts>
    <PEXPort>
      <Port></Port>
      <Description></Description>
      <State></State>
      <Interface>
        <IfName></IfName>
        <State></State>
        <PeerIfName></PeerIfName>
      </Interface>
      <Associate></Associate>
    </PEXPort>
  </PEXPorts>
</PEX>

```

Table description

Item	Description
Feature name	IRF
Table name	PEXPorts
Table type	Multi-instance table
Row name	PEXPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	PEX port number.	index	Unsigned integer.	N/A
Description	PEX port description.	N/A	String. Length: 1 to 79	N/A
State	State of a PEX port.	N/A	Enumeration. 1—Offline 2—Loading 3—Online	N/A
Interface	Physical port of a PEX port.	Data structure	Members: - IfName - PeerIfName - State	Multi-instance
IfName	Interface name.	N/A	String. Length: 2 to 47 characters.	Physical port of an PEX port
State	State of the interface.	N/A	Enumeration. 1—Forwarding 2—Blocked 3—Down 4—ADM	Forwarding: Link is up and is forwarding. Blocked: Link is up and flow is blocked. Down: Link is down. ADM: The port has been manually shut down with the shutdown command.
PeerIfName	Peer interface name.	N/A	String. Length: 2 to 47 characters.	Peer interface name of the Physical port of an PEX port
Associate	Associated chassis ID or slot ID of the PEX port.	N/A	Unsigned integer.	IRF (distributed): chassis ID Other: slot ID

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XML structure	2
Table description	2
Columns	2

PIM

PIM/Instances

This table contains IPv4 PIM instance information.

XML structure

```
<PIM>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
    </Instance>
  </Ipv4Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.
RegWholeChks	Checksum calculating rule for PIM register messages	N/A	Boolean: true—Calculates the checksum based on an entire register message. false—Calculates the checksum based on the header of a register message (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SsmPolicy	ACL number	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A

PIM/Interfaces

This table contains IPv4 PIM interface information.

XML structure

```

<PIM>
  <Ipv4Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </Interface>
  </Ipv4Interfaces>
</PIM>

```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	PIM Mode	N/A	Enumeration: • 1—PIM-SM. • 2—PIM-DM.	N/A

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PIM

PIM/Instances

This table contains IPv4 PIM instance information.

XML structure

```
<PIM>
  <Ipv4Instances>
    <Instance>
      <VRF></VRF>
      <RegWholeChks></RegWholeChks>
      <SsmPolicy></SsmPolicy>
    </Instance>
  </Ipv4Instances>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	This table supports only default VRF.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN name.	Index	String. Length: 0 to 31 characters.	Empty string indicates default VRF.
RegWholeChks	Checksum calculating rule for PIM register message	N/A	Boolean: true—Calculates the checksum based on an entire register message. false—Calculates the checksum based on the header of a register message (default).	N/A
SsmPolicy	ACL number	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A

PIM/Interfaces

This table contains IPv4 PIM interface information.

XML structure

```
<PIM>
  <Ipv4Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </Interface>
  </Ipv4Interfaces>
</PIM>
```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Mode	PIM Mode	N/A	Enumeration: 1—PIM-SM. 2—PIM-DM.	N/A

PIM/Ipv4Nbrs

This table contains IPv4 PIM neighbor information.

XML structure

```
<PIM>
```

```

<Ipv4Nbrs>
  <Nbr>
    <IfIndex></IfIndex>
    <NbrAddr></NbrAddr>
    <Uptime></Uptime>
    <Expires></Expires>
  </Nbr>
</Ipv4Nbrs>
</PIM>

```

Table description

Item	Description
Feature name	PIM
Table name	Ipv4Nbrs
Table type	Multi-instance table
Row name	Nbr
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
NbrAddr	IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Uptime	Length of time the PIM neighbor has been up.	N/A	Unsigned integer (in seconds).	N/A
Expires	Time remaining of the PIM neighbor lifetime.	N/A	Unsigned integer (in seconds).	The value of 0xFFFFFFFF means that the PIM neighbor is always up and reachable.

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Ping

Ping/IPv4Ping

This table is used to test the specified IPv4 address of the device is reachable.

XML structure

```
<Ping>
  <IPv4Ping>
    <PingTest>
      <Host></Host>
      <VRF></VRF>
    </PingTest>
  </IPv4Ping>
</Ping>
```

Responded XML structure

```
<Ping>
  <IPv4Ping>
    <PingTest>
      <Host></Host>
      <PayloadLength></PayloadLength>
      <EchoReply>
        <IcmpSequence></IcmpSequence>
        <TTLValue></TTLValue>
        <ReplyTime></ReplyTime>
      </EchoReply>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
      <StandardDeviation></StandardDeviation>
    </PingTest>
  </IPv4Ping>
</Ping>
```

Table description

Item	Description
Feature name	Ping
Table name	IPv4Ping

Item	Description
Table type	Multi-instance table
Row name	PingTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address or hostname of remote system.	Index	String. Length: 1 to 253 characters.	Example: 1.1.1.1 or hostname
VRF	Vrf name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address of remote system.	N/A	String, IPv4 address string.	Example: 1.1.1.1
PayloadLength	The payload length.	N/A	Unsigned integer. Value range: 20 to 8100.	N/A
EchoReply	The info of echo reply.	Data structure	Members include: - IcmpSequence. - TTLValue. - ReplyTime.	N/A
IcmpSequence	The Sequence of echo reply.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TTLValue	The TTL value of echo reply.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
ReplyTime	The time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If value is 4294967295, it means that time out.
TotalTransmitPacket	The total numbers of transmit echo packets.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TotalReceivePacket	The total numbers of receive echo packets.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
LossRate	Loss packet Rate	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MinReplyTime	The min microsecond time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
MaxReplyTime	The max time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
AvgReplyTime	The average time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
StandardDeviation	The standard deviation time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.

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Responded XML structure	1
Table description	1
Columns	2
Responded columns	2

Ping6

Ping6/IPv6Ping

This table is used to test the specified IPv6 address of the device is reachable.

XML structure

```
<Ping6>
  <IPv6Ping>
    <PingTest>
      <Host></Host>
      <VRF></VRF>
    </PingTest>
  </IPv6Ping>
</Ping6>
```

Responded XML structure

```
<Ping6>
  <IPv6Ping>
    <PingTest>
      <Host></Host>
      <SrcAddr></SrcAddr>
      <PayloadLength></PayloadLength>
      <EchoReply>
        <IcmpSequence></IcmpSequence>
        <HopLimitValue></HopLimitValue>
        <ReplyTime></ReplyTime>
      </EchoReply>
      <TotalTransmitPacket></TotalTransmitPacket>
      <TotalReceivePacket></TotalReceivePacket>
      <LossRate></LossRate>
      <MinReplyTime></MinReplyTime>
      <MaxReplyTime></MaxReplyTime>
      <AvgReplyTime></AvgReplyTime>
      <StandardDeviation></StandardDeviation>
    </PingTest>
  </IPv6Ping>
</Ping6>
```

Table description

Item	Description
Feature name	Ping6

Item	Description
Table name	IPv6Ping
Table type	Multi-instance table
Row name	PingTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address or hostname of remote system.	Index	String. Length: 1 to 253 characters.	Example: 1::1 or hostname
VRF	Vrf name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address of remote system.	N/A	String,IPv6 address string.	Example: 1::1.
SrcAddr	IPv6 source address.	N/A	String,IPv6 address string.	Example: 1::1.
PayloadLength	The payload length.	N/A	Unsigned integer. Value range: 20 to 8100.	N/A
EchoReply	The info of echo reply.	Data structure	Members include: - IcmpSequence. - HopLimitValue. - ReplyTime.	N/A
IcmpSequence	The Sequence of echo reply.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
HopLimitValue	The hop limit value of echo reply.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
ReplyTime	The time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If value is 4294967295, it means that time out.
TotalTransmitPacket	The total numbers of transmit echo packets.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalReceive Packet	The total numbers of receive echo packets.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
LossRate	Loss packet Rate	N/A	Unsigned integer. Value range: 0 to 100.	N/A
MinReplyTime	The min microsecond time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
MaxReplyTime	The max time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
AvgReplyTime	The average time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.
StandardDeviation	The standard deviation time of echo reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If LossRate is 100, the value is meaningless.

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XML structure	3
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XML structure	4
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PKEY

PKEY/ExportPublicKeys

This table is used to export local public key in SSH format.

XML structure

```
<PKEY>
  <ExportPublicKeys>
    <Export>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <FormatID></FormatID>
      <FileName></FileName>
      <ReplaceFile></ReplaceFile>
    </Export>
  </ExportPublicKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	ExportPublicKeys
Table type	Multi-instance table
Row name	Export
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
FormatID	Identity of SSH format	N/A	Unsigned integer. Value range: 1 to 2 ³² -1.	See table SSHFormats for supported algorithm.

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	User path of the file ,which the public key will be exported to.	N/A	String. Length: 1 to 128 characters. Case insensitive.	The path can't be the followed value: • "hostkey" • "serverkey" • "dsakey" • "ecdsakey" • path which only contain "."." • path which first character is '/' • path which contains "./" or "../"
ReplaceFile	If replace existed file	N/A	Boolean: • true • false Default value is false	N/A

PKEY/ImportPeerKeys

This table is used to import peer public key pairs.

XML structure

```

<PKEY>
  <ImportPeerKeys>
    <Import>
      <PeerKeyName></PeerKeyName>
      <FileName></FileName>
      <ReplaceKey></ReplaceKey>
    </Import>
  </ImportPeerKeys>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	ImportPeerKeys
Table type	Multi-instance table
Row name	Import
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer public key	Index	String. Length: 1 to 31 characters. Case sensitive	N/A
FileName	Path of peer key file	N/A	String. Length: 1 to 128 characters. Case insensitive.	The path can't be the followed value: • "hostkey" • "serverkey" • "dsakey" • "ecdsakey" • path which only contain "." • path which first character is '/' • path which contains "/" or "../"
ReplaceKey	If replace existed peer key	N/A	Boolean: • true • false Default value is false	N/A

PKEY/CreateLocalKeys

This table is used to create local asymmetric key pairs.

XML structure

```

<PKEY>
  <CreateLocalKeys>
    <Create>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <Length></Length>
      <ReplaceKey></ReplaceKey>
    </Create>
  </CreateLocalKeys>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	CreateLocalKeys
Table type	Multi-instance table

Item	Description
Row name	Create
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
Length	Length of public key	N/A	Unsigned integer.	See table PKEYCapabilities for supported length.
ReplaceKey	If replace existed local asymmetric key	N/A	Boolean: true false Default value is false.	N/A

PKEY/DestroyLocalKeys

This table is used to destroy local asymmetric key pairs.

XML structure

```

<PKEY>
  <DestroyLocalKeys>
    <Destroy>
      <AlgID></AlgID>
      <KeyName></KeyName>
    </Destroy>
  </DestroyLocalKeys>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	DestroyLocalKeys
Table type	Multi-instance table
Row name	Destroy

Item	Description
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to $2^{32}-1$.	See table PKEYCapabilities for supported algorithms.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.

Contents

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XML structure	1
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PKEY

PKEY/PeerKeys

This table is used to configure peer public keys.

XML structure

```
<PKEY>
  <PeerKeys>
    <Key>
      <PeerKeyName></PeerKeyName>
      <Value></Value>
    </Key>
  </PeerKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PeerKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer public key	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
Value	The data of Key	N/A	PKCS#1 formatted hex string. Length: 1 to 2047 characters.	See table LocalKeys for supported value.

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XML structure	5
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XML structure	6
Table description	6
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PKEY

PKEY/LocalKeys

This table is used to get local public keys.

XML structure

```
<PKEY>
  <LocalKeys>
    <Key>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <Length></Length>
      <CreatedTime></CreatedTime>
      <Value></Value>
    </Key>
  </LocalKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	LocalKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	See table PKEYCapabilities for supported algorithm.
KeyName	Name of local asymmetric key	Index	String. Length: 1 to 64 characters. Case insensitive	N/A
Length	Length of local asymmetric key	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CreatedTime	When is the key created	N/A	DateTime. Format:HH:MM:SS YYYY/MM/DDT	N/A
Value	The value of public key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/DefaultLocalKeys

This table is used to get default local public keys.

XML structure

```

<PKEY>
  <LocalKeys>
    <Key>
      <AlgID></AlgID>
      <Usage></Usage>
      <Length></Length>
      <CreatedTime></CreatedTime>
      <Value></Value>
    </Key>
  </LocalKeys>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	DefaultLocalKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2^32-1.	See table PKEYCapabilities for supported algorithm.

Column name	Column description	Column type	Data type and restrictions	Remarks
Usage	Key Usage	Index	Enumeration: 1—HostKey. 2—ServerKey	ServerKey is only meaningful for RSA, while HostKey is meaningful for all supported algorithms.
Length	Length of local asymmetric key	N/A	Unsigned integer.	N/A
CreatedTime	When is the key created	N/A	DateTime. Format:HH:MM:SS YYYY/MM/DDT	N/A
Value	The value of key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/PeerKeys

This table is used to get peer public keys.

XML structure

```

<PKEY>
  <PeerKeys>
    <Key>
      <PeerKeyName></PeerKeyName>
      <AlgID></AlgID>
      <Length></Length>
      <Value></Value>
    </Key>
  </PeerKeys>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	PeerKeys
Table type	Multi-instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PeerKeyName	Name of peer public key	Index	String. Length: 1 to 31 characters. Case sensitive	N/A
AlgID	Identity of algorithm	N/A	Unsigned integer. Value range: 1 to 2 ³² -1.	See table PKEYCapabilities for supported algorithm.
Length	Length of asymmetric key	N/A	Unsigned integer.	N/A
Value	The value of key	N/A	PKCS#1 formatted hex string.	N/A

PKEY/GetSSHPublicKeys

This table is used to export local public key to SSH formatted data.

XML structure

```
<PKEY>
  <GetSSHPublicKeys>
    <Key>
      <AlgID></AlgID>
      <KeyName></KeyName>
      <FormatID></FormatID>
      <Value></Value>
    </Key>
  </GetSSHPublicKeys>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	GetSSHPublicKeys
Table type	Multi -instance table
Row name	Key
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	See table PKEYCapabilities for supported algorithm.
KeyName	Name of local asymmetric key	Index	String. Length: 0 to 64 characters. Case insensitive.	A key name with 0 characters belongs to a default key.
FormatID	Identity of SSH format	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	See table SSHFormats for supported algorithm.
Value	Information of SSH format key	N/A	String. Length: 1 to 2048 characters.	N/A

PKEY/SSHFormats

This table described supported SSH format

XML structure

```

<PKEY>
  <SSHFormats>
    <SSHFormat>
      <FormatID></FormatID>
      <FormatName></FormatName>
    </SSHFormat>
  </SSHFormats>
</PKEY>

```

Table description

Item	Description
Feature name	PKEY
Table name	SSHFormats
Table type	Multi -instance table
Row name	SSHFormat
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FormatID	Identity of SSH format	Index	Unsigned integer.	N/A
FormatName	Name of supported SSH format	N/A	String. Length: 1 to 255 characters Case insensitive	N/A

PKEY/PKEYCapabilities

This table contains supported PKEY algorithm information

XML structure

```
<PKEY>
  <PKEYCapabilities>
    <PKEYCapability>
      <AlgID></AlgID>
      <AlgName></AlgName>
      <MinLength></MinLength>
      <MaxLength></MaxLength>
      <DefaultLength></DefaultLength>
      <ExportFormatIDList>
        <IDItem></IDItem>
      </ExportFormatIDList>
    </PKEYCapability>
  </PKEYCapabilities>
</PKEY>
```

Table description

Item	Description
Feature name	PKEY
Table name	PKEYCapabilities
Table type	Multi-instance table
Row name	PKEYCapability
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
AlgName	Name of algorithm	N/A	String. Length: 1 to 255 characters. Case insensitive.	The name of supported algorithm
MinLength	Minimal length of supported algorithm	N/A	Unsigned integer.	N/A
MaxLength	Maximal length of supported algorithm	N/A	Unsigned integer.	N/A
DefaultLength	Default length of supported algorithm	N/A	Unsigned integer.	N/A
ExportFormatList	Supported export SSH format list	Data structure	Members include: IDItem.	N/A
IDItem	Identity of SSH format	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$	Contains up to 3 IDItem in ExportFormatList

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PKI

PKI/ImportCertificates

This table is used to import the certificate to device.

XML structure

```
<PKI>
  <ImportCertificates>
    <Import>
      <Domain></Domain>
      <CertificateType></CertificateType>
      <FilePath></FilePath>
      <Password></Password>
      <NewPubKeyName></NewPubKeyName>
    </Import>
  </ImportCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ImportCertificates
Table type	Multi-instance table
Row name	Import
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"_""*" "\ " ." " < " > "" "" "" "" "
CertificateType	The type of certificate	Index	Enumeration: • 1—CA • 2—Local.	N/A
FilePath	The path of certificate file to be imported	N/A	String	The file must be existed in the device

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	Password used to decrypt the certificate, which can be PKCS#12 or PEM formatted.	N/A	String	Case sensitive. The password is necessary as follow: - The file format is PKCS#12 and the certificate type is local - The file format is PEM, and there is local certificate and private key in the file
NewPubKey Name	The name of new public key.	N/A	String. Length: 1 to 64 characters.	- Case insensitive. - Only contain letters, number and “_”. - If the name is empty and there is no key name in the domain, it will use the domain name as the key name.

PKI/ExportCACertificates

This table is used to export the CA certificate.

XML structure

```

<PKI>
  <ExportCACertificates>
    <Export>
      <Domain></Domain>
      <FileFormat></FileFormat>
      <IsWithCertsChain></IsWithCertsChain>
      <FilePath></FilePath>
      <ReplaceFile></ReplaceFile>
    </Export>
  </ExportCACertificates>
</PKI>

```

Table description

Item	Description
Feature name	PKI

Item	Description
Table name	ExportCACertificates
Table type	Multi-instance table
Row name	Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~" "*" "\ " " ." " " "<" ">" "" "" "" "" /"
FileFormat	The file format	N/A	Enumeration: • 1 —DER • 2 —PEM	N/A
IsWithCerts Chain	If exported certificate contains CA certicate chain	N/A	Boolean: • true —Yes. • false —No. Defalut value is false	N/A
FilePath	The path of the file will export certificate to	N/A	String	The path must be existed in the device
ReplaceFile	If replace when the file is existed.	N/A	Boolean: • true —Yes. • false —No. Defalut value is false	N/A

PKI/ExportLocalCertificates

This table is used to export the local certificate.

XML structure

```
<PKI>
  <ExportLocalCertificates>
    <Export>
      <Domain></Domain>
      <FileFormat></FileFormat>
      <IsWithCertsChain></IsWithCertsChain>
      <IsWithKey></IsWithKey>
      <EncAlgID></EncAlgID>
      <Password></Password>
      <FilePath></FilePath>
      <ReplaceFile></ReplaceFile>
```



```
</Export>
</ExportLocalCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	ExportLocalCertificates
Table type	Multi-instance table
Row name	Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ " * " \ " " . " : " < " > " ; " , " / " .
FileFormat	The file format	N/A	Enumeration: • 1 —DER • 2 —PKCS#12 • 3 —PEM	N/A
IsWithCerts Chain	If exported certificate contains CA certicate chain	N/A	Boolean: • true —Yes. • false —No. Defalut value is false	N/A
IsWithKey	If exported certificate contains private key	N/A	Boolean: • true —Yes. • false —No. Defalut value is false	N/A
EncAlgID	Identity of encryption algorithm	N/A	Unsigned integer. Value range: 1 to 2^32-1.	See table PKICapabilities for supported encryption algorithm.

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	Password which will be used to encrypt the file when exported certificate contains private key	N/A	String Case sensitive.	The password is required as follow: • The file format is PKCS12 and the certificate type is local • The file format is PEM, and it will export both local certificate and private key to the file
FilePath	The path of the file	N/A	String	The directory must be existed in the device
ReplaceFile	If replace when the file is existed.	N/A	Boolean: • true—Yes. • false—No. Defalut value is false	N/A

PKI/DeleteCertificates

This table is used to delete the certificates.

XML structure

```

<PKI>
  <DeleteCertificates>
    <Delete>
      <Domain></Domain>
      <CertificateType></CertificateType>
    </Delete>
  </DeleteCertificates>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	DeleteCertificate
Table type	Multi-instance table
Row name	Delete
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: "~", "*", "\", " ", ":", " ", "<", ">", "'''", "''", "/*", "*/".
CertificateType	The type of certificate	Index	Enumeration: 1—CA 2—Local. 3—Peer.	It will delete local certificate, peer certificate, CRL, and CA certificate when the type is CA.

PKI/RequestCertificates

This table is used to request a certificate on line.

XML structure

```
<PKI>
  <RequestCertificates>
    <Request>
      <Domain></Domain>
      <Password></Password>
    </Request>
  </RequestCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	RequestCertificates
Table type	Multi-instance table
Row name	Request
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: " ~ " * " \ " " , " ' " " < " " > " " " " " / " .

XML structure

```
<PKI>
  <RetrieveCertificates>
    <Retrieve>
      <Domain></Domain>
      <CertificateType></CertificateType>
      <PeerEntity></PeerEntity>
    </Retrieve>
  </RetrieveCertificates>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	RetrieveCertificates
Table type	Multi-instance table
Row name	Retrieve
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~, ", *, \, , ., , , <, >, ' , /.
CertificateType	The certificate type	Index	Enumeration: • 1—CA • 2—Local. • 3—Peer.	N/A
PeerEntity	The peer entity name	N/A	String. Length: 1 to 31 characters. Case insensitive.	The column can be valid only when The certificate type is peer

PKI/RetrieveCRLs

This table is used to obtain CRLs.

XML structure

```
<PKI>
  <RetrieveCRLs>
```

```

    <Retrieve>
      <Domain></Domain>
    </Retrieve>
  </RetrieveCRLs>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	RetrieveCRLs
Table type	Multi-instance table
Row name	Retrieve
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~, *, \, , ", ., , , <, >, ' ' ' ' / .

PKI/DelPeerCertBySerialNumber

This table is used to delete the certificates by SerialNumber.

XML structure

```

<PKI>
  <DelPeerCertBySerialNumber>
    <Delete>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
    </Delete>
  </DelPeerCertBySerialNumber>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	DelPeerCertBySerialNumber

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PKI

PKI/Domains

This table is used to configure PKI domains.

XML structure

```
<PKI>
  <Domains>
    <Domain>
      <Name></Name>
      <CAIdentifier></CAIdentifier>
      <Entity></Entity>
      <CertRequestFrom></CertRequestFrom>
      <CertRequestURL>
        <URL></URL>
        <VRF></VRF>
      </CertRequestURL>
      <CertRequestMode>
        <Mode></Mode>
        <PWDType></PWDType>
        <Password></Password>
      </CertRequestMode>
      <RootCertFingerprint>
        <Type></Type>
        <Value></Value>
      </RootCertFingerprint>
      <LDAPServer>
        <Host></Host>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </LDAPServer>
      <CRLURL>
        <URL></URL>
        <VRF></VRF>
      </CRLURL>
      <CRLCheck></CRLCheck>
      <Usage>
        <IKE></IKE>
        <SSLServer></SSLServer>
        <SSLClient></SSLClient>
      </Usage>
      <CertRequestPoll>
        <Count></Count>
        <Interval></Interval>
```

```
</CertRequestPoll>
<SourceIP>
  <AddressType></AddressType>
  <Address></Address>
  <IfIndex></IfIndex>
</SourceIP>
</Domain>
</Domains>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ " * ' \ , . _ : ; < > [] ^ ` { } / .
CALidentifier	CA identifier name.	N/A	String. Length: 1 to 63 characters. Case sensitive.	N/A
Entity	Reference a PKI entity for the PKI domain	N/A	String. Case insensitive. Length: 1 to 31 characters.	N/A
CertRequest From	The type of certificate request reception authority.	N/A	Enumeration: 1—CA. 2—RA.	N/A
CertRequest URL	The URL of the certificate request reception authority (CA or RA)	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 511 characters. Case sensitive.	
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CertRequest Mode	The certificate request mode.	Data structure	Members include: Mode PWDType Password	N/A
Mode	The mode of certificate request	N/A	Enumeration: 1—Auto. 2—Manual. Default value is 2.	N/A
PWDType	The password type of certificate revocation.	N/A	Enumeration: 1—simple. 2—cipher.	The column can be valid only when Mode is Auto
Password	The password value of certificate revocation.	N/A	String. Length: 1 to 73 characters. Case sensitive.	The column can be valid only when Mode is Auto. Type simple string length is 1 to 31. Type cipher string length is 1 to 73.
RootCertFingerprint	The fingerprint for verifying the validity of the CA root certificate.	Data structure	Members include: Type Value	N/A
Type	The fingerprint type.	N/A	Enumeration: 1—MD5. 2—SHA1.	N/A
Value	The fingerprint value.	N/A	String: Length:32 or 40 hex characters Case sensitive.	Type MD5 is 32 hex string length. Type SHA1 is 40 hex string length.
LDAPServer	An LDAP server for a PKI domain	Data structure	Members include: Host PortNumber VRF	N/A
Host	The hostname of the LDAP server	N/A	String: Length:1 to 255 characters Case sensitive.	The string can be IPv4 address, IPv6 address, or domain name.
PortNumber	The port number of the LDAP server	N/A	Unsigned integer: Value range:1 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default value is 389.	
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLURL	the URL of the CRL repository.	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	The URL format is ldap://server_location or http://server_location, Server_location can be an IP address or a domain name.
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLCheck	If check whether the certificate has been revoked by CRL	N/A	Boolean: true—Enable. false—Disable. Default value is false.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: - IKE - SSLServer - SSLClient.	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: true—Enable. false—Disable.	N/A
SSLServer	Use certificate as the SSL server certificates	N/A	Boolean: true—Enable. false—Disable.	N/A
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: true—Enable. false—Disable.	N/A
CertRequest Poll	The polling interval and the maximum number of attempts to query certificate request status.	Data structure	Members include: Count Interval	N/A
Count	The value of the maximum number	N/A	Unsigned integer: Value range:1 to 100 Default value is 50.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The value of the polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes Default value is 20.	N/A
SourceIP	The source IP address for PKI protocol packets.	Data structure	Members include: AddressType Address IfIndex	N/A
AddressType	The type of IP Address	N/A	Enumeration: 1—IPv4 2—IPv6	AddressType, Address must be configured together. Can not be configured together with IfIndex.
Address	The value of IP Address	N/A	IPv4 or IPv6	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Can not be configured together with AddressType and Address. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

PKI/DomainPubkeys

This table is used to reference the asymmetric keys for PKI domain.

XML structure

```

<PKI>
  <DomainPubkeys>
    <Pubkey>
      <Domain></Domain>
      <Type></Type>
      <Purpose></Purpose>
      <Name></Name>
      <Length></Length>
    </Pubkey>
  </DomainPubkeys>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	DomainPubkeys
Table type	Multi-instance table
Row name	Pubkey
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: "~", "*", "\\", " ", " ", "<", ">", ":", ";", ",", ".", "'", "/".
Type	Type of algorithm	Index	Enumeration: • 1—RSA. • 2—DSA. • 3—ECDSA.	See table PKI/AuthorityAlgs for supported algorithm.
Purpose	Key purpose	Index	Enumeration: • 1—General • 2—Signature • 3—Encryption	ECDSA key and DSA key can be used for signature purpose, while RSA key can be used for all purpose.
Name	Key name	N/A	String. Length: 1 to 64 characters Case insensitive.	Only contain letters, number and "-".
Length	Length of public key	N/A	Unsigned integer.	See table PKI/AuthorityAlgs for supported length.

PKI/Entities

This table is used to configure the PKI entities.

XML structure

```
<PKI>
  <Entities>
    <Entity>
```

```

    <EntityName></EntityName>
    <CommonName></CommonName>
    <Country></Country>
    <State></State>
    <Locality></Locality>
    <Organization></Organization>
    <OrganizationUnit></OrganizationUnit>
    <FQDN></FQDN>
    <IP>
        <Ipv4Address></Ipv4Address>
        <IfIndex></IfIndex>
    </IP>
</Entity>
</Entities>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	Entities
Table type	Multi-instance table
Row name	Entity
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntityName	PKI entity name	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
CommonName	The common name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Country	The country code	N/A	Text. Length: 2 to 2 characters.	Country code is described in ISO 3166-1
State	The state name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Locality	The locality name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.

Column name	Column description	Column type	Data type and restrictions	Remarks
Organization	The organization name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
OrganizationUnit	The unit name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
FQDN	The FQDN name	N/A	String. Length: 1 to 255 characters Case sensitive.	N/A
IP	The IP address	Data structure	Members include: - Ipv4Address. - IfIndex..	Either Ipv4Address or IfIndex can be specified.
Ipv4Address	Ipv4 address	N/A	Ipv4Address	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary Ipv4 address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

PKI/CertAccessPolicies

This table is used to configure the certificate access control policies.

XML structure

```

<PKI>
  <CertAccessPolicies>
    <Policy>
      <Name></Name>
    </Policy>
  </CertAccessPolicies>
</PKI>

```


Table description

Item	Description
Feature name	PKI
Table name	CertAccessPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAccessRules

This table is used to configure the rules of the certificate access control policy.

XML structure

```
<PKI>
  <CertAccessRules>
    <Rule>
      <Policy></Policy>
      <RuleID></RuleID>
      <Action></Action>
      <AttributeGroup></AttributeGroup>
    </Rule>
  </CertAccessRules>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessRules
Table type	Multi-instance table
Row name	Rule

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
RuleID	Index of the rule in the access control policy.	Index	Unsigned integer. Value range:1 to 16	The smaller the RuleID is, the higher the priority is.
Action	How to operate the certificate that match the rule	N/A	Enumeration: 1—Permit 2—Deny	N/A
AttributeGroup	The name of certificate attribute group	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributeGroups

This table is used to configure the certificate attribute groups.

XML structure

```

<PKI>
  <CertAttributeGroups>
    <Group>
      <Name></Name>
    </Group>
  </CertAttributeGroups>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributeGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributes

This table is used to configure the attributes of the certificate attribute groups.

XML structure

```

<PKI>
  <CertAttributes>
    <Attribute>
      <Group></Group>
      <AttributeID></AttributeID>
      <Object></Object>
      <Item></Item>
      <Operator></Operator>
      <Value></Value>
    </Attribute>
  </CertAttributes>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
AttributeID	Index of the attribute in the certificate attribute group	Index	Unsigned integer. Value range:1 to 16	The smaller the AttributeID is, the higher the priority is.
Object	The object which to be matched	N/A	Enumeration: 1—alt-subject-name 2—issuer-name 3—subject-name	N/A
Item	The item in the object	N/A	Enumeration: 1—DN 2—FQDN 3—IpAddress	It's can be each value when the object is subject-name or issuer-name, but only can be FQDN or IpAddress when the object is alt-subject-name.
Operator	How to operate the item	N/A	Enumeration: 1—contain 2—equal 3—not contain 4—not equal	N/A
Value	The value that be used to match with item.	N/A	String. Length: 1 to 255 characters. Case insensitive.	N/A

PKI/StoragePath

This table is used to configure the PKI storage path.

XML structure

```

<PKI>
  <StoragePath>
    <StorageCertPath></StorageCertPath>
    <StorageCRLPath></StorageCRLPath>
  </StoragePath>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	StoragePath
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StorageCert Path	The PKI certificate storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"
StorageCRL Path	The PKI CRL storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"

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PKI

PKI/Domains

This table is used to get information of PKI domain

XML structure

```
<PKI>
  <Domains>
    <Domain>
      <Name></Name>
      <CAIdentifier></CAIdentifier>
      <Entity></Entity>
      <CertRequestFrom></CertRequestFrom>
      <CertRequestURL>
        <URL></URL>
        <VRF></VRF>
      </CertRequestURL>
      <CertRequestMode>
        <Mode></Mode>
      </CertRequestMode>
      <RootCertFingerprint>
        <Type></Type>
        <Value></Value>
      </RootCertFingerprint>
      <LDAPServer>
        <Host></Host>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </LDAPServer>
      <CRLURL>
        <URL></URL>
        <VRF></VRF>
      </CRLURL>
      <CRLCheck></CRLCheck>
      <Usage>
        <IKE></IKE>
        <SSLServer></SSLServer>
        <SSLClient></SSLClient>
      </Usage>
      <CertRequestPoll>
        <Count></Count>
        <Interval></Interval>
      </CertRequestPoll>
      <SourceIP>
```



```

    <AddressType></AddressType>
    <Address></Address>
    <IfIndex></IfIndex>
  </SourceIP>
</Domain>
</Domains>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	Domains
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~, *, \, , ", ., , , <, >, ' , /, .
CAIdentifier	CA identifier name.	N/A	String. Length: 1 to 63 characters. Case sensitive.	N/A
Entity	Reference a PKI entity for the PKI domain	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A
CertRequestFrom	The type of certificate request reception authority.	N/A	Enumeration: 1—CA. 2—RA.	N/A
CertRequestURL	The URL of the certificate request reception authority (CA or RA)	Data structure	Members include: URL VRF	N/A
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CertRequestMode	The certificate request mode.	Data structure	Members include: Mode	N/A
Mode	The type of Mode	N/A	Enumeration: 1—Auto. 2—Manual. Default value is 2.	N/A
RootCertificateFingerprint	The fingerprint for verifying the validity of the CA root certificate.	Data structure	Members include: Type Value	N/A
Type	The fingerprint type.	N/A	Enumeration: 1—MD5. 2—SHA1.	N/A
Value	The fingerprint value.	N/A	String: Length:32 or 40 hex characters Case sensitive.	Type MD5 is 32 hex string length. Type SHA1 is 40 hex string length.
LDAPServer	An LDAP server for a PKI domain	Data structure	Members include: Host PortNumber VRF	N/A
Host	The hostname of the LDAP server	N/A	String: Length:1 to 255 characters Case sensitive.	The string can be IPv4 address, IPv6 address, or domain name.
PortNumber	The port number of the LDAP server	N/A	Unsigned integer: Value range:1 to 65535 Default value is 389.	N/A
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLURL	The URL of the CRL repository.	Data structure	Members include: URL VRF	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	The value of URL	N/A	String. Length: 1 to 511 characters. Case sensitive.	The URL format is ldap://server_location or http://server_location, Server_location can be an IP address or a domain name.
VRF	The vpn instance which the address is belongs to.	N/A	String: Length:1 to 31 characters Case sensitive.	It's a public network when VRF is not specified.
CRLCheck	If check whether the certificate has been revoked by CRL	N/A	Boolean: true—Enable. false—Disable. Default value is false.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: - IKE - SSLServer - SSLClient.	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: true—Enable. false—Disable.	N/A
SSLServer	Use certificate as the SSL server certificates	N/A	Boolean: true—Enable. false—Disable.	N/A
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: true—Enable. false—Disable.	N/A
CertRequestPoll	The polling interval and the maximum number of attempts to query certificate request status.	Data structure	Members include: Count Interval	N/A
Count	The value of the maximum number	N/A	Unsigned integer: Value range:1 to 100 Default value is 50.	N/A
Interval	The value of the polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes Default value is 20.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIP	The source IP address for PKI protocol packets.	Data structure	Members include: AddressType Address IfIndex	N/A
AddressType	The type of IP Address	N/A	Enumeration: 1—IPv4 2—IPv6	N/A
Address	The value of IP Address	N/A	IPv4 or IPv6	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary IP address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.

PKI/DomainPubkeys

This table is used to get the asymmetric keys of PKI domain.

XML structure

```

<PKI>
  <DomainPubkeys>
    <Pubkey>
      <Domain></Domain>
      <Type></Type>
      <Purpose></Purpose>
      <Name></Name>
      <Length></Length>
    </Pubkey>
  </DomainPubkeys>
</PKI>

```

Table description

Item	Description
Feature name	PKI

Item	Description
Table name	DomainPubkeys
Table type	Multi-instance table
Row name	Pubkey
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: "~", " ", "\\", " ", ".", ":", ";", "<", ">", "/*", "/".
Type	Type of algorithm	Index	Enumeration: • 1—RSA. • 2—DSA. • 3—ECDSA.	See table PKI/AuthorityAlgs for supported encryption algorithm.
Purpose	Key purpose	Index	Enumeration: • 1—General • 2—Signature • 3—Encryption	ECDSA key and DSA key can be used for signature purpose, while RSA key can be used for all purpose.
Name	Key name	N/A	String. Length: 1 to 64 characters Case insensitive.	Only contain letters, number and "-".
Length	Length of public key	N/A	Unsigned integer.	See table PKI/AuthorityAlgs for supported length.

PKI/Entities

This table is used to get the PKI entities.

XML structure

```
<PKI>
<Entities>
  <Entity>
    <EntityName></EntityName>
    <CommonName></CommonName>
    <Country></Country>
    <State></State>
    <Locality></Locality>
    <Organization></Organization>
    <OrganizationUnit></OrganizationUnit>
    <FQDN></FQDN>
```

```

<IP>
  <Ipv4Address></Ipv4Address>
  <IfIndex></IfIndex>
</IP>
</Entity>
</Entities>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	Entities
Table type	Multi-instance table
Row name	Entity
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EntityName	PKI entity name	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
CommonName	The common name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Country	The country code	N/A	Text. Length: 2 to 2 characters.	Country code is described in ISO 3166-1
State	The state name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Locality	The locality name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
Organization	The organization name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
OrganizationUnit	The unit name	N/A	Text. Length: 1 to 63 characters. Case sensitive.	Comma can not be contained.
FQDN	The FQDN name	N/A	String. Length: 1 to 255 characters Case sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IP	The IP address	Data structure	Members include: - Ipv4Address. - IfIndex..	Either Ipv4Address or IfIndex can be specified.
Ipv4Addresses	Ipv4 address	N/A	Ipv4Address	N/A
IfIndex	The index of interface	N/A	Unsigned integer.	Get the primary Ipv4 address of the interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

PKI/CertAccessPolicies

This table is used to get the certificate access control policies.

XML structure

```

<PKI>
  <CertAccessPolicies>
    <Policy>
      <Name></Name>
    </Policy>
  </CertAccessPolicies>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAccessRules

This table is used to get the rules of the certificate access control policy.

XML structure

```
<PKI>
  <CertAccessRules>
    <Rule>
      <Policy></Policy>
      <RuleID></RuleID>
      <Action></Action>
      <AttributeGroup></AttributeGroup>
    </Rule>
  </CertAccessRules>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAccessRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	The name of certificate access control policy	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Index of the rule in the access control policy.	Index	Unsigned integer. Value range:1 to 16	The smaller the RuleID is, the higher the priority is.
Action	How to operate the certificate that match the rule	N/A	Enumeration: 1—Permit 2—Deny	N/A
AttributeGroup	The name of certificate attribute group	N/A	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributeGroups

This table is used to get the certificate attribute groups.

XML structure

```

<PKI>
  <CertAttributeGroups>
    <Group>
      <Name></Name>
    </Group>
  </CertAttributeGroups>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributeGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A

PKI/CertAttributes

This table is used to get the attributes of the certificate attribute groups.

XML structure

```
<PKI>
  <CertAttributes>
    <Attribute>
      <Group></Group>
      <AttributeID></AttributeID>
      <Object></Object>
      <Item></Item>
      <Operator></Operator>
      <Value></Value>
    </Attribute>
  </CertAttributes>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertAttributes
Table type	Multi-instance table
Row name	Attribute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	The name of certificate attribute group	Index	String. Length: 1 to 31 characters. Case insensitive.	N/A
AttributeID	Index of the attribute in the certificate attribute group	Index	Unsigned integer. Value range:1 to 16	The smaller the AttributeID is, the higher the priority is.
Object	The object which to be matched	N/A	Enumeration: • 1—alt-subject-name • 2—issuer-name • 3—subject-name	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Item	The item in the object	N/A	Enumeration: • 1—DN • 2—FQDN • 3—IpAddress	It's can be each value when the object is subject-name or issuer-name, but only can be FQDN o IpAddress when the object is alt-subject-name.
Operator	How to operate the item	N/A	Enumeration: • 1—contain • 2—equal • 3—not contain • 4—not equal	N/A
Value	The value that be used to match with item.	N/A	String. Length: 1 to 255 characters. Case insensitive.	N/A

PKI/StoragePath

This table is used to get the PKI storage path.

XML structure

```

<PKI>
  <StoragePath>
    <StorageCertPath></StorageCertPath>
    <StorageCRLPath></StorageCRLPath>
  </StoragePath>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	StoragePath
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StorageCert Path	The PKI certificate storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"
StorageCRL Path	The PKI CRL storage path	N/A	String. Case sensitive.	The path can't begin with "/" or "../"

PKI/DomainCACerts

This table is used to get the CA certificates of the PKI domain

XML structure

```
<PKI>
  <DomainCACerts>
    <Cert>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
      <Issuer></Issuer>
      <Subject></Subject>
      <Validity>
        <NotBefore></NotBefore>
        <NotAfter></NotAfter>
      </Validity>
      <IsLowestCA></IsLowestCA>
      <DetailInfoText></DetailInfoText>
    </Cert>
  </DomainCACerts>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainCACerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include:"~","*"," "," " "," " " " " " " " " " " " " " " " " "
SerialNumber	The serial number of the certificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A
Validity	The validity date of the certificate	Data structure	Members include: - NotBefore. - NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A
IsLowestCA	If the CA certificate is the lowest in the PKI domain	N/A	Boolean: - true—The CA certificate is lowest. - false—The CA certificate isn't lowest.	N/A
DetailInfoText	The text of the ca certificate or the certificate chain.	N/A	String	N/A

PKI/DomainLocalCerts

This table is used to get the local certificates of the PKI domain

XML structure

```
<PKI>
  <DomainLocalCerts>
    <Cert>
      <Domain></Domain>
      <KeyUsage></KeyUsage>
      <SerialNumber></SerialNumber>
      <Issuer></Issuer>
      <Subject></Subject>
      <Validity>
        <NotBefore></NotBefore>
```

```

        <NotAfter></NotAfter>
    </Validity>
    <DetailInfoText></DetailInfoText>
</Cert>
</DomainLocalCerts>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	DomainLocalCerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~" *' \, " , . , : , ; , < , > , [,] , { , } , ^ , _ , / , .
KeyUsage	The key usage of the certificate	Index	Enumeration: 1—General. 2—Signature. 3—Encryption.	There is only one special usage certificate in one domain, and general usage certificate can't appear with signature/encryption certificate at the same time.
SerialNumber	The serial number of the certificate	N/A	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A
Validity	The validity date of the certificate	Data structure	Members include: - NotBefore. - NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DetailInfoText	The text of the local certificate or the certificate chain	N/A	String	N/A

PKI/CertificateRequests

This table is used to get the certificate requests for the domain

XML structure

```

<PKI>
  <CertificateRequests>
    <Request>
      <Domain></Domain>
      <Password></Password>
      <Value></Value>
    </Request>
  </CertificateRequests>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	CertificateRequests
Table type	Multi-instance table
Row name	Request
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ " * ' \ " . , ; : < > " " " " " " " / " .

Column name	Column description	Column type	Data type and restrictions	Remarks
Password	The challenge word which is needed when revoke the certificate	N/A	String. Length: 1 to 31 characters. Case sensitive.	N/A
Value	The certificate request value	N/A	String	N/A

PKI/ImportCertStatus

This table is used to get the status when import certificate to a domain

XML structure

```

<PKI>
  <ImportCertStatus>
    <Status>
      <Domain></Domain>
      <CertificateType></CertificateType>
      <FilePath></FilePath>
      <Password></Password>
      <NewPubKeyName></NewPubKeyName>
      <IsNewPubKeyExist></IsNewPubKeyExist>
      <IsPubKeyConfiged></IsPubKeyConfiged>
      <IsCorrectFormat></IsCorrectFormat>
      <IsNoCA></IsNoCA>
      <IsKeyPairExist></IsKeyPairExist>
      <IsKeyPairMatched></IsKeyPairMatched>
      <CertFingerprint></CertFingerprint>
      <DomainFingerprint></DomainFingerprint>
      <IsFingerprintMatched></IsFingerprintMatched>
      <NeedReplaceCACert></NeedReplaceCACert>
      <NeedReplaceLocalCert></NeedReplaceLocalCert>
      <NeedReplaceKeyPair></NeedReplaceKeyPair>
      <CertVerifyErrStr></CertVerifyErrStr>
    </Status>
  </ImportCertStatus>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	ImportCertStatus

Column name	Column description	Column type	Data type and restrictions	Remarks
IsNoCA	If there is no any CA certificate when import	N/A	Boolean: true—Yes. false—No.	Error information
IsKeyPairExisted	If the key pair is existed	N/A	Boolean: true—Yes. false—No.	If there isn't key pair in both file and device, the value is false, otherwise it is true Error information
IsKeyPairMatched	If the key pair is matched with the certificate	N/A	Boolean: true—Yes. false—No.	Error information
CertFingerprint	The fingerprint of the root certificate	N/A	String. Length: 1 to 127 characters.	The column is appended only when there is new root certificate be imported to device Confirm information
DomainFingerprint	The fingerprint configured in the PKI domain	N/A	String. Length: 1 to 127 characters.	The column is appended only when the PKI domain configured the root fingerprint
IsFingerprintMatched	If the root fingerprint is matched	N/A	Boolean: true—Yes. false—No.	Error information
NeedReplaceCACert	If the CA certificate needs to be replaced	N/A	Boolean: true—Yes. false—No.	Confirm information
NeedReplaceLocalCert	If the local certificate needs to be replaced	N/A	Boolean: true—Yes. false—No.	Confirm information
NeedReplaceKeyPair	If the key pair needs to be replaced	N/A	Boolean: true—Yes. false—No.	Confirm information
CertVerifyErrorStr	The result of the validate when import	N/A	String. Length: 1 to 255 characters.	The column is appended only when it is failed to verify the certificate

PKI/AuthorityAlgs

This table is used to get the authority algorithm

XML structure

<PKI>

```

<AuthorityAlgs>
  <Alg>
    <AlgID></AlgID>
    <AlgName></AlgName>
    <MinLength></MinLength>
    <MaxLength></MaxLength>
    <DefaultLength></DefaultLength>
  </Alg>
</AuthorityAlgs>
</PKI>

```

Table description

Item	Description
Feature name	PKI
Table name	AuthorityAlgs
Table type	Multi-instance table
Row name	Alg
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AlgID	Identity of algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	
AlgName	Name of algorithm	N/A	String. Length: 1 to 255 characters Case insensitive.	The name of supported algorithm
MinLength	Minimal length of supported algorithm	N/A	Unsigned integer.	N/A
MaxLength	Maximal length of supported algorithm	N/A	Unsigned integer.	N/A
DefaultLength	Default length of supported algorithm	N/A	Unsigned integer.	N/A

PKI/PKICapabilities

This table is used to get the PKI capabilities

XML structure

```
<PKI>
  <PKICapabilities>
    <PKICapability>
      <EncAlgID></EncAlgID>
      <Name></Name>
    </PKICapability>
  </PKICapabilities>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	PKICapabilities
Table type	Multi-instance table
Row name	PKICapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EncAlgID	Identity of encryption algorithm	Index	Unsigned integer. Value range: 1 to 2 ³² -1.	N/A
Name	Name of encryption algorithm	N/A	String. Length: 1 to 255 characters. Case insensitive.	The name of supported encryption algorithm

PKI/CertRequestStatus

This table is used to get the certificate request status.

XML structure

```
<PKI>
  <CertRequestStatus>
    <Status>
      <Domain></Domain>
      <KeyUsage></KeyUsage>
      <PollingInterval></PollingInterval>
    </Status>
  </CertRequestStatus>
</PKI>
```

```
<LastPollingTime></LastPollingTime>
  <RemainPollingCount></RemainPollingCount>
</Status>
</CertRequestStatus>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	CertRequestStatus
Table type	Multi-instance table
Row name	Status
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ , " * ' \ , ; . , " < " > , : ; / .
KeyUsage	Key usage for requesting certificate.	Index	Enumeration: • 1—general. • 2—signature. • 3—encryption.	N/A.
PollingInterval	The polling interval	N/A	Unsigned integer: Value range:5 to 168, in minutes	N/A
LastPollingTime	The last polling time	N/A	DateTime	N/A
RemainPollingCount	Remain polling attempts	N/A	Unsigned integer: Value range:1 to 100.	N/A

PKI/DomainPeerCerts

This table is used to get the peer certificates of the PKI domain.

XML structure

```
<PKI>
  <DomainPeerCerts>
    <Cert>
      <Domain></Domain>
      <SerialNumber></SerialNumber>
```

```
<Issuer></Issuer>
<Subject></Subject>
<Validity>
  <NotBefore></NotBefore>
  <NotAfter></NotAfter>
</Validity>
<DetailInfoText></DetailInfoText>
</Cert>
</DomainPeerCerts>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainPeerCerts
Table type	Multi-instance table
Row name	Cert
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ , * , \ , , . , ' , < , > , : , ; , , / , .
SerialNumber	The serial number of the certificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The Subject name	N/A	String	N/A
Validity	The validity date of the certificate	Data structure	Members include: - NotBefore. - NotAfter.	N/A
NotBefore	The begin time of the validity	N/A	DateTime	N/A
NotAfter	The end time of the validity	N/A	DateTime	N/A
DetailInfoText	The text of the peer certificate .	N/A	String	N/A

PKI/DomainsCRL

This table is used to get the CRL saved at the local for a PKI domain.

XML structure

```
<PKI>
  <DomainsCRL>
    <DomainCRL>
      <Domain></Domain>
      <Issuer></Issuer>
      <LastUpdate></LastUpdate>
      <NextUpdate></NextUpdate>
    </DomainCRL>
  </DomainsCRL>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	DomainsCRL
Table type	Multi-instance table
Row name	DomainCRL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: <code>" ~ * " \ , ; . : < > [] ^ _ ` { } ~ ! @ # \$ % ^ & * () - = + , . / " '</code> .
Issuer	The issuer name	N/A	String	N/A
LastUpdate	The last update time.	N/A	DateTime	N/A
NextUpdate	The next update time.	N/A	DateTime	N/A

PKI/PKIValidateResults

This table is used to get the validity of certificates.

XML structure

```
<PKI>
  <PKIValidateResults>
    <Result>
      <Domain></Domain>
      <CertType></CertType>
      <SerialNum></SerialNum>
      <Issuer></Issuer>
      <Subject></Subject>
      <ErrCode></ErrCode>
      <ErrDescription></ErrDescription>
    </Result>
  </PKIValidateResults>
</PKI>
```

Table description

Item	Description
Feature name	PKI
Table name	PKIValidateResults
Table type	Multi-instance table
Row name	Result
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain	The PKI domain name	Index	String. Length: 1 to 31 characters. Case insensitive.	Can't include: ~ " * \ < > , ' / .
CertType	The certificate type.	Index	Enumeration: • 1—CA • 2—Local	N/A
SerialNum	The serial number of the ceritificate	Index	String.	N/A
Issuer	The issuer name	N/A	String	N/A
Subject	The subject name	N/A	String	N/A
ErrCode	The error code.	N/A	Unsigned integer: Value range: 0 to 255.	0 means verification through,others fail.

Column name	Column description	Column type	Data type and restrictions	Remarks
ErrDescription	The error description.	N/A	String. Length: 1 to 127 characters.	N/A

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PoE

PoE/PSEUpdate

This table contains PoE Update action information.

XML structure

```
<PoE>
  <PSEUpdate>
    <PSE>
      <PSEID></PSEID>
      <FileName></FileName>
      <Mode></Mode>
    </PSE>
  </PSEUpdate>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEUpdate
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
FileName	The used file name.	N/A	String. Length: 1 to 255characters.	N/A
Mode	Updating mode.	N/A	Enumeration: 0 – full. 1 – refresh.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```
<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
    </PSE>
  </PSEs>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
PeakPower	The peak power (W)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.
AveragePower	The average power (W)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.

PoE/Ports

This table contains PoE port information.

XML structure

```
<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
      <IfIndex></IfIndex>
      <PeakPower></PeakPower>
```

```

        <AveragePower></AveragePower>
    </Port>
</Ports>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi -instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see <i>Ifmgr NETCONF XML API Configuration Reference</i> .
PeakPower	The peak power (mW)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.
AveragePower	The average power (mW)	N/A	Unsigned integer.	Only support 0 to clear the statistic information.

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PoE

PoE/PriorityPolicy

This table contains PoE global priority policy information.

XML structure

```
<PoE>
  <PriorityPolicy>
    <PSEPolicyMode></PSEPolicyMode>
    <PDPolicyMode></PDPolicyMode>
  </PriorityPolicy>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PriorityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicyMode	Mode of PSE power policy.	N/A	Enumeration. 1 – disabled (default). 2 – priority.	The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload. A value of priority(2) means that the power will stop supplying to the low priority PSE. A value of disabled(1) means that the power will stop supplying to the new inserted PSE.

Column name	Column description	Column type	Data type and restrictions	Remarks
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. 1 – disabled (default). 2 – priority.	The PD policy only applies to the situation that when a new PD is inserted, and the power of PSE is overload. A value of priority(2) means that the power will stop supplying to the low priority port PD. A value of disabled(1) means that the slot stop supplying to the new inserted PD.

PoE/Powers

This table contains PoE Power information.

XML structure

```

<PoE>
  <Powers>
    <Power>
      <PowerIndex></PowerIndex>
      <PowerLimit></PowerLimit>
    </Power>
  </Powers>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Powers
Table type	Multi-instance table
Row name	Power
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```
<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <PowerLimit></PowerLimit>
      <UsageThreshold></UsageThreshold>
      <Priority></Priority>
      <Legacy></Legacy>
    </PSE>
  </PSEs>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UsageThresh old	The usage threshold (%)	N/A	Unsigned integer. Value range: 1 to 99.	N/A
Priority	The power priority	N/A	Enumeration. 1 – critical. 2 – high. 3 – low (default).	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. 0 – enabled. 1 – disabled (default).	N/A

PoE/Ports

This table contains PoE Port information.

XML structure

```

<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>
      <IfIndex></IfIndex>
      <AdminEnable></AdminEnable>
      <Pairs></Pairs>
      <Priority></Priority>
      <PDDescription></PDDescription>
      <FaultDescription></FaultDescription>
      <PowerLimit></PowerLimit>
      <ProfileIndex></ProfileIndex>
    </Port>
  </Ports>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A
IfIndex	Interface index Index of the PSE	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see <i>Ifmgr NETCONF XML API Configuration Reference</i> .
AdminEnable	The admin enable status of an interface which can provide PSE functions	N/A	Boolean: true false	N/A
Pairs	The power pairs in use.	N/A	Enumeration. 1 – signal. 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
Priority	The power priority of the specified interface	N/A	Enumeration. 1 – critical. 2 – high. 3 – low (default).	N/A
PDDescription	The description for the Pd that is connected to the port.	N/A	String. Length: 1 to 80 characters.	N/A
FaultDescription	The fault category	N/A	String. Length: 1 to 255 characters.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
ProfileIndex	The profile index applied to the Poe port	N/A	Unsigned integer.	N/A

PoE/Profiles

This table contains PoE profile information.

XML structure

<PoE>

```

<Profiles>
  <Profile>
    <ProfileIndex></ProfileIndex>
    <ProfileName></ProfileName>
    <PowerMode></PowerMode>
    <PowerLimit></PowerLimit>
    <Priority></Priority>
    <Pairs></Pairs>
  </Profile>
</Profiles>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Profiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile	Index	Unsigned integer.	N/A
ProfileName	The name of profile	N/A	String. Length: 1 to 15 characters.	N/A
PowerMode	The power status of an interface which can provide PSE functions	N/A	Enumeration. 1 – disabled (default). 2 – enabled.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
Priority	The power priority	N/A	Enumeration. 1 – critical. 2 – high. 3 – low (default).	N/A
Pairs	The power pairs in use.	N/A	Enumeration. 1 – signal. 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.

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PoE

PoE/Capabilities

This table contains PoE global capability information.

XML structure

```
<PoE>
  <Capabilities>
    <SupportPoE></SupportPoE>
    <PSEPolicy></PSEPolicy>
    <PDPolicy></PDPolicy>
    <PowerManage></PowerManage>
    <MaxPower></MaxPower>
    <PSEUpdate></PSEUpdate>
    <PowerMode></PowerMode>
    <PSEMaxPower></PSEMaxPower>
  </Capabilities>
</PoE>
```

Table description

Item	Description
Feature name	PoE
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportPoE	Whether Support PoE feature	N/A	Boolean: true false	N/A
PSEPolicy	Whether the system supports PSE power policy configuration	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PDPolicy	Whether the system supports PD power policy configuration	N/A	Boolean: • true • false	N/A
PowerManage	Whether the system supports PoE power management	N/A	Boolean: • true • false	N/A
MaxPower	Whether the system supports PoE power MaxPower configuration	N/A	Boolean: • true • false	N/A
PSEUpdate	Whether the system supports PSE firmware updating	N/A	Boolean: • true • false	N/A
PowerMode	Whether the system supports PoE port power mode configuration	N/A	Boolean: • true • false	N/A
PSEMaxPower	Whether the system supports PSE max power configuration	N/A	Boolean: • true • false	N/A

PoE/PriorityPolicy

This table contains PoE global priority policy information.

XML structure

```

<PoE>
  <PriorityPolicy>
    <PSEPolicyMode></PSEPolicyMode>
    <PDPolicyMode></PDPolicyMode>
  </PriorityPolicy>
</PoE>

```

Table description

Item	Description
Feature name	PoE

Table name	PriorityPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEPolicyMode	Mode of PSE power policy.	N/A	Enumeration. 1 – disabled. 2 – priority.	The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload. A value of priority(2) means that the power will stop supplying to the low priority PSE. A value of disabled(1) means that the power will stop supplying to the new inserted PSE.
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. 1 – disabled. 2 – priority.	The PD policy only applies to the situation that when a new PD is inserted, and the power of PSE is overload. A value of priority(2) means that the power will stop supplying to the low priority port PD. A value of disabled(1) means that the slot stop supplying to the new inserted PD.

PoE/Powers

This table contains PoE Power information.

XML structure

```
<PoE>
  <Powers>
```

```

<Power>
  <PowerIndex></PowerIndex>
  <Chassis></Chassis>
  <Slot></Slot>
  <NominalPower></NominalPower>
  <CurrentPower></CurrentPower>
  <PeakPower></PeakPower>
  <AveragePower></AveragePower>
  <RemainingGuaranteedPower></RemainingGuaranteedPower>
  <RemainingAllocablePower></RemainingAllocablePower>
  <PowerLimit></PowerLimit>
  <MaxPowerDefault></MaxPowerDefault>
  <MaxPowerUpper></MaxPowerUpper>
  <MaxPowerLower></MaxPowerLower>
</Power>
</Powers>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Powers
Table type	Multi-instance table
Row name	Power
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A
Chassis	ID of the member where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the power supply resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AveragePower	The average power m(W)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
RemainingAllocablePower	The remaining allocable power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A
MaxPowerDefault	The default value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerUpper	The upper value of PoE power max power(mW)	N/A	Unsigned integer.	N/A
MaxPowerLower	The lower value of PoE power max power(mW)	N/A	Unsigned integer.	N/A

PoE/PSEs

This table contains PSE information.

XML structure

```

<PoE>
  <PSEs>
    <PSE>
      <PSEID></PSEID>
      <Chassis></Chassis>
      <Slot></Slot>
      <SubSlot></SubSlot>
      <Model></Model>
      <NominalPower></NominalPower>
      <CurrentPower></CurrentPower>
      <PeakPower></PeakPower>
      <AveragePower></AveragePower>
      <RemainingGuaranteedPower></RemainingGuaranteedPower>
      <PowerLimit></PowerLimit>
      <OperStatus></OperStatus>
      <UsageThreshold></UsageThreshold>
      <Priority></Priority>
      <Legacy></Legacy>
      <MaxPowerDefault></MaxPowerDefault>
      <MaxPowerUpper></MaxPowerUpper>
      <MaxPowerLower></MaxPowerLower>
    </PSE>
  </PSEs>
</PoE>

```

```

    <PortMaxPowerDefault></PortMaxPowerDefault>
    <PortMaxPowerUpper></PortMaxPowerUpper>
    <PortMaxPowerLower></PortMaxPowerLower>
    <PowerIndex></PowerIndex>
  </PSE>
</PSEs>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	PSEs
Table type	Multi-instance table
Row name	PSE
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE	Index	Unsigned integer.	N/A
Chassis	ID of the member where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no chassis number, return 65535.
Slot	The number of slot where the PSE resides	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	The number of Subslot where the PSE resides	N/A	Unsigned integer. Value range: 1 to 65535.	If there is no slot number, return 65535.
Model	The type of the PSE	N/A	String. Length: 1 to 32 characters.	N/A
NominalPower	The nominal power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
RemainingGuaranteedPower	The remaining guaranteed power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power limit (mW)	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OperStatus	The operational status of the PSE	N/A	Enumeration. • 1 – on. • 2 – off. • 3 – faulty.	N/A
UsageThresh old	The usage threshold (%)	N/A	Unsigned integer. Value range: 1 to 99.	N/A
Priority	The power priority	N/A	Enumeration. • 1 – critical. • 2 – high. • 3 – low.	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. • 0 – enabled. • 1 – disabled.	N/A
MaxPowerDef ault	The default max power value of this PSE(mW)	N/A	Unsigned integer.	N/A
MaxPowerUp per	The upper max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
MaxPowerLo wer	The lower max power value of this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPowe rDefault	The default value of Port max power in this PSE(mW)	N/A	Unsigned integer.	N/A
PortMaxPowe rUpper	The upper value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PortMaxPowe rLower	The lower value of Port max power in this PSE (mW)	N/A	Unsigned integer.	N/A
PowerIndex	Index of the Power supply	Index	Unsigned integer.	N/A

PoE/Ports

This table contains PoE port information.

XML structure

```

<PoE>
  <Ports>
    <Port>
      <PSEID></PSEID>

```

```

<IfIndex></IfIndex>
<AdminEnable></AdminEnable>
<PairsControlAbility></PairsControlAbility>
<Pairs></Pairs>
<DetectionStatus></DetectionStatus>
<Priority></Priority>
<MPSAbsentCounter></MPSAbsentCounter>
<PDDescription></PDDescription>
<PowerClassifications></PowerClassifications>
<InvalidSignatureCounter></InvalidSignatureCounter>
<PowerDeniedCounter></PowerDeniedCounter>
<OverLoadCounter></OverLoadCounter>
<ShortCounter></ShortCounter>
<FaultDescription></FaultDescription>
<PeakPower></PeakPower>
<AveragePower></AveragePower>
<CurrentPower></CurrentPower>
<PowerLimit></PowerLimit>
<PowerModeDefault></PowerModeDefault>
<ProfileIndex></ProfileIndex>
</Port>
</Ports>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Ports
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PSEID	Index of the PSE which the port belongs to	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see <i>Ifmgr NETCONF XML API Configuration Reference</i> .
AdminEnable	The admin enable status of an interface which can provide PSE functions	N/A	Enumeration. 1 – true. 2 – false.	N/A
PairsControllability	The capability of controlling the power pairs functionality to switch pins for sourcing power	N/A	Enumeration. 1 – true. 2 – false.	N/A
Pairs	The power pairs in use.	N/A	Enumeration. 1 – signal. 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
DetectionStatus	The operational status of the port PD detection	N/A	Enumeration. 1 – disabled. 2 – searching. 3 – deliveringPower. 4 – fault. 5 – test. 6 – otherFault.	disabled indicates that the PSE State diagram is in the state DISABLED. deliveringPower indicates that the PSE State diagram is in the state POWER_ON for a duration greater than the limit max (see IEEE Std 802.3af Table 33-5 tlim). fault indicates that the PSE State diagram is in the state TEST_ERROR. test indicates that the PSE State diagram is in the state TEST_MODE. otherFault indicates that the PSE State diagram is in the state IDLE due to the variable error_conditions. searching indicates the PSE State diagram is in a state other than those listed above.

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	The power priority	N/A	Enumeration. • 1 – critical. • 2 – high. • 3 – low.	N/A
MPSAbsentCounter	The counter for interface state diagram transitions directly from the state POWER_ON to the state IDLE	N/A	Unsigned integer.	N/A
PDDescription	The description for the Pd that is connected to the port.	N/A	String. Length: 1 to 80 characters.	N/A
PowerClassifications	The Classification of the PD connected to the PoE interface	N/A	Enumeration. • 1 – class0. • 2 – class1. • 3 – class2. • 4 – class3. • 5 – class4.	N/A
InvalidSignatureCounter	This counter is incremented when the PSE state diagram enters the state SIGNATURE_INVALID	N/A	Unsigned integer.	N/A
PowerDeniedCounter	This counter is incremented when the PSE state diagram enters the state POWER_DENIED	N/A	Unsigned integer.	N/A
OverLoadCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_OVER	N/A	Unsigned integer.	N/A
ShortCounter	This counter is incremented when the PSE state diagram enters the state ERROR_DELAY_SHORT	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
FaultDescription	The fault category	N/A	String. Length: 1 to 255 characters.	N/A
PeakPower	The peak power (mW)	N/A	Unsigned integer.	N/A
AveragePower	The average power (mW)	N/A	Unsigned integer.	N/A
CurrentPower	The current power (mW)	N/A	Unsigned integer.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
PowerModeDefault	The default mode of PoE port power mode	N/A	Enumeration. 1 – signal. 2 – spare.	N/A
ProfileIndex	The profile index applied to the Poe port	N/A	Unsigned integer.	N/A

PoE/Profiles

This table contains PoE profile information.

XML structure

```

<PoE>
  <Profiles>
    <Profile>
      <ProfileIndex></ProfileIndex>
      <ProfileName></ProfileName>
      <PowerMode></PowerMode>
      <PowerLimit></PowerLimit>
      <Priority></Priority>
      <Pairs></Pairs>
      <ApplyNumber></ApplyNumber>
    </Profile>
  </Profiles>
</PoE>

```

Table description

Item	Description
Feature name	PoE
Table name	Profiles
Table type	Multi-instance table
Row name	Profile

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileIndex	Index of the profile	Index	Unsigned integer.	N/A
ProfileName	The name of profile	N/A	String. Length: 1 to 15 characters.	N/A
PowerMode	The power status of an interface which can provide PSE functions	N/A	Enumeration. 1 – disabled. 2 – enabled.	N/A
PowerLimit	The max power (mW)	N/A	Unsigned integer.	N/A
Priority	The power priority of the specified interface	N/A	Enumeration. 1 – critical. 2 – high. 3 – low.	N/A
Pairs	The power pairs in use.	N/A	Enumeration. 1 – signal. 2 – spare.	signal means that the signal pairs only are in use. spare means that the spare pairs only are in use.
ApplyNumber	The number of this profile which has been applied.	N/A	Unsigned integer.	N/A

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Table description	3
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XML structure	5
Table description	5
Columns	6

PortSecurity

PortSecurity/Common

This table contains information about port security global parameters.

XML structure

```
<PortSecurity>
  <Common>
    <Enable></Enable>
    <MACMove></MACMove>
    <AuthorStrict></AuthorStrict>
    <SecMACAgingInterval></SecMACAgingInterval>
    <IntrusionShutdownInterval></IntrusionShutdownInterval>
  </Common>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global port security status	N/A	Boolean: true—Enabled. false—Disabled(default).
MACMove	Allows 802.1X or MAC authenticated users to move between ports on a device	N/A	Boolean: true—Enabled. false—Disabled(default).
AuthorStrict	Allows 802.1X or MAC authenticated users who failed authorization to be online or not	N/A	Boolean: true—Logs off the users. false—Keeps the users online (default).

Column name	Column description	Column type	Data type and restrictions
SecMACAgingInterval	Value for the secure MAC address aging timer	N/A	Unsigned integer. Value range: 0 to 129600 minutes. Default: 0 minutes.
IntrusionShutdownInterval	Value of intrusion protection's port shutdown timer	N/A	Unsigned integer Value range: 20 to 300 seconds. Default: 20 seconds.

PortSecurity/OUIList

This table contains an OUI list for port security's OUI authentication.

XML structure

```

<PortSecurity>
  <OUIList>
    <OUIMAC>
      <Index></Index>
      <Address></Address>
    </OUIMAC>
  </OUIList>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	OUIList
Table type	Multi-instance table
Row name	OUIMAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	OUI index	Index	Unsigned integer. Value range: 1 to 16.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	An OUI string of a 48-bit MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	The system uses only the 24 high-order bits as the OUI value. The system does not limit the number of OUIs in the list.

PortSecurity/Interfaces

This table contains port security configuration on an interface.

XML structure

```

<PortSecurity>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthenMode></AuthenMode>
      <AuthorIgnore></AuthorIgnore>
      <ProtectionMode></ProtectionMode>
      <SecMACAgeMode></SecMACAgeMode>
      <SecMACSticky></SecMACSticky>
      <SecMACMaxCnt></SecMACMaxCnt>
      <FreeVlanList></FreeVlanList>
      <NTKMode></NTKMode>
    </Interface>
  </Interfaces>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
AuthenMode	Authentication mode	N/A	Enumeration: 1—noRestrictions (default). 2—autolearn. 3—mac-authentication. 4—mac-else-userlogin-secure. 5—mac-else-userlogin-secure-ext. 6—secure. 7—userlogin. 8—userlogin-secure. 9—userlogin-secure-ext. 10—userlogin-secure-or-mac. 11—userlogin-secure-or-mac-ext. 12—userlogin-withoui.	N/A
AuthorIgnore	Ignores authorization information from the server for users logging on from the interface	N/A	Boolean: - true—Enabled. - false—Disabled(default).	N/A
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: 1—noaction (default). 2—blockusermac. 3—shutdownport. 4—shutdownportforatime.	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: 0—Timeout (default). 1—Inactivity.	N/A
SecMACSticky	Saves secure MACs on the interface or not	N/A	Boolean: - true—Enabled. - false—Disabled(default).	N/A
SecMACMaxCnt	Max count of secure MAC	N/A	Unsigned integer. Value range: 1 to 4096.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	addresses on the interface		Default: Not configured.	
NTKMode	Need to Know mode	N/A	Enumeration: 1—Noaction (default). 2—ntk-withbroadcasts. 3—ntk-withmulticasts. 4—ntkonly.	N/A
FreeVlanList	Authentication free VLAN list	N/A	Number string. The string is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	This column supports incremental editing. You can set the flag like "<FreeVlanList base:incremental='true'>". If the value is true, the VLAN list will be incrementally added or removed. If the value is false or no flag is set, the free VLANs issued on the current operation are all the effective free VLANs.

PortSecurity/InterfaceSecMAC

This table contains port security's secure MAC addresses on interfaces.

XML structure

```

<PortSecurity>
  <InterfaceSecMAC>
    <SecureMAC>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <MAC></MAC>
      <Sticky></Sticky>
    </SecureMAC>
  </InterfaceSecMAC>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceSecMAC
Table type	Multi-instance table
Row name	SecureMAC

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VLANID	VLAN ID for this secure MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	Secure MAC address added	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
Sticky	The configured MAC can age out or not	N/A	Boolean: true—Aging type. false—Not aged (default).	N/A

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PortSecurity

PortSecurity/Common

This table contains information about port security global parameters.

XML structure

```
<PortSecurity>
  <Common>
    <Enable></Enable>
    <MACMove></MACMove>
    <AuthorStrict></AuthorStrict>
    <SecMACAgingInterval></SecMACAgingInterval>
    <IntrusionShutdownInterval></IntrusionShutdownInterval>
    <SecMACCnt></SecMACCnt>
  </Common>
</PortSecurity>
```

Table description

Item	Description
Feature name	PortSecurity
Table name	Common
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global port security status	N/A	Boolean: true—Enabled. false—Disabled.
MACMove	Allows 802.1X or MAC authenticated users to move between ports on a device	N/A	Boolean: true—Enabled. false—Disabled.
AuthorStrict	Allows 802.1X or MAC authenticated users who failed authorization to be online or not	N/A	Boolean: true—Logs off the users. false—Keeps the users online.

Column name	Column description	Column type	Data type and restrictions
SecMACAgingInterval	Value for the secure MAC address aging timer	N/A	Unsigned integer. Value range: 0 to 129600 minutes.
IntrusionShutdownInterval	Value for intrusion protection's port shutdown timer	N/A	Unsigned integer. Value range: 20 to 300 seconds.
SecMACCnt	Number of secure MAC addresses in the system	N/A	Unsigned integer.

PortSecurity/OUIList

This table contains an OUI list for port security's OUI authentication.

XML structure

```

<PortSecurity>
  <OUIList>
    <OUIMAC>
      <Index></Index>
      <Address></Address>
    </OUIMAC>
  </OUIList>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	OUIList
Table type	Multi-instance table
Row name	OUIMAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	OUI index	Index	Unsigned integer. Value range: 1 to 16.	N/A
Address	An OUI string of a 48-bit MAC	N/A	MAC address in the HH-HH-HH-HH-HH-	The system uses only the 24 high-order bits as the

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		HH format.	OUI value. The system does not limit the number of OUIs in the list.

PortSecurity/Interfaces

This table contains port Security information on interfaces.

XML structure

```

<PortSecurity>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthenMode></AuthenMode>
      <AuthorIgnore></AuthorIgnore>
      <ProtectionMode></ProtectionMode>
      <SecMACAgeMode></SecMACAgeMode>
      <SecMACSticky></SecMACSticky>
      <SecMACMaxCnt></SecMACMaxCnt>
      <SecMACCurrentCnt></SecMACCurrentCnt>
      <NTKMode></NTKMode>
      <FreeVlanList></FreeVlanList>
    </Interface>
  </Interfaces>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	Interfaces
Table type	Multi-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
AuthenMode	Authentication mode	N/A	Enumeration: 1—noRestrictions. 2—autolearn. 3—mac-authentication. 4—mac-else-userlogin-secure. 5—mac-else-userlogin-secure-ext. 6—secure. 7—userlogin. 8—userlogin-secure. 9—userlogin-secure-ext. 10—userlogin-secure-or-mac. 11—userlogin-secure-or-mac-ext. 12—userlogin-withoui.	N/A
AuthorIgnore	Ignores authorization information from the server for users logging on from the interface	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: 1—noaction. 2—blockusermac. 3—shutdownport. 4—shutdownportfortime.	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: 0—Timeout. 1—Inactivity.	N/A
SecMACSticky	Saves secure MACs on the interface or not	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SecMACMaxCnt	Max count of secure MAC addresses on the interface	N/A	Unsigned integer. Value range: 1 to 4096.	N/A
SecMACCurrentCnt	Current secure MAC count on the interface	N/A	Unsigned integer. Value range: 0 to 4096.	N/A
NTKMode	Need to Know mode	N/A	Enumeration: 1—Noaction. 2—ntk-withbroadcasts. 3—ntk-withmulticasts. 4—ntkonly.	N/A
FreeVlanList	Authentication free VLAN list	N/A	Number string. The string is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	This column supports incremental editing. You can set the flag like "<FreeVlanList base:incremental='true'>". If the value is true, the VLAN list will be incrementally added or removed. If the value is false or no flag is set, the free VLANs issued on the current operation are all the effective free VLANs.

PortSecurity/InterfaceSecMAC

This table contains port security's secure MAC addresses on interfaces.

XML structure

```

<PortSecurity>
  <InterfaceSecMAC>
    <SecureMAC>
      <IfIndex></IfIndex>
      <VLANID></VLANID>
      <MAC></MAC>
      <Sticky></Sticky>
      <TimeLeft></TimeLeft>
    </SecureMAC>
  </InterfaceSecMAC>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceSecMAC
Table type	Multi-instance table
Row name	SecureMAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VLANID	VLAN ID for this secure MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	Secure MAC address added	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
Sticky	The configured MAC can age out or not	N/A	Boolean: • true—Aged type. • false—Not aged.	N/A
TimeLeft	Remaining aging time for this MAC address	N/A	Unsigned integer.	If the remaining aging time is less than 60 seconds, the aging time is counted in seconds. If the aging time is not less than 60 seconds, the aging time is counted in minutes.

PortSecurity/InterfaceBlkMAC

This table contains port security intrusion protection's blocked MAC addresses on interfaces.

XML structure

```
<PortSecurity>
```



```

<InterfaceBlkMAC>
  <BlockMAC>
    <IfIndex></IfIndex>
    <VLANID></VLANID>
    <MAC></MAC>
  </BlockMAC>
</InterfaceBlkMAC>
</PortSecurity>

```

Table description

Item	Description
Feature name	PortSecurity
Table name	InterfaceBlkMAC
Table type	Multi-instance table
Row name	BlockMAC
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface names. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VLANID	VLAN ID for this blocked MAC address	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MAC	Intrusion protection's blocked MAC address	Index	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A

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Portal

Portal/UserAccessSwitch

Portal user access net switch table.

XML structure

```
<Portal>
  <UserAccessSwitch>
    <AccessSwitch>
      <IPAddress></IPAddress>
      <Switch></Switch>
    </AccessSwitch>
  </UserAccessSwitch>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	UserAccessSwitch
Table type	Multi-instance table
Row name	AccessSwitch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example:1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Switch	Net Access.	N/A	Boolean: false—OFF. true—ON.	N/A

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XML structure	34
Table description	35
Columns	35

Portal

Portal/PortalServers

XMLstructure

```
<Portal>
  <PortalServers>
    <PortalServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
        <Key></Key>
      </IPAddressInfo>
      <Port></Port>
      <Detect>
        <TimeOut></TimeOut>
        <Action></Action>
      </Detect>
      <UserSyncTime></UserSyncTime>
    </PortalServer>
  </PortalServers>
</Portal>
```

Table description

Item	Description
Table description	Portal Server information table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServers
Row name	PortalServer
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Portal server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal server address	Data structure	Members include: IPAddress VRF Key	The IPAddress must be set for this column.
IPAddress	IP address of the portal server	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal server and the device. It supports only plaintext.
Port	Port number	N/A	Non-negative integer. Value range: 1 to 65534.	The default is 50100.
Detect	Portal server detection	Data structure	Members include: TimeOut Action	When you set the structure, the Action must be set. The timeout is 60 by default if not set.
TimeOut	Detection timeout	N/A	Non-negative integer. Value range: 10 to 3600 seconds.	The default is 60.
Action	Action to be performed when the detection times out.	N/A	Enumeration: 1—log 2—trap 3—Both	N/A
UserSyncTime	User synchronization time	N/A	Non-negative integer. Value range: 60 to 18000 seconds.	The default is 1200.

Portal/WebServers

XMLstructure

```
<Portal>
  <WebServers>
    <WebServer>
      <Name></Name>
      <Url></Url>
      <Detect>
        <Interval></Interval>
        <Retry></Retry>
        <Action></Action>
      </Detect>
      <VRF></VRF>
      <CaptiveBypass></CaptiveBypass>
    </WebServer>
  </WebServers>
</Portal>
```

Table description

Item	Description
Description	Portal WebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebServers
Row name	WebServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
Url	Redirect URL	N/A	String. Length: 1 to 256 characters.	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
Detect	Web server detection	Data structure	Members include: - Interval - Retry - Action	The Action must be included.
Interval	Detection interval	N/A	Non-negative integer. Value range: 10 to 2000 seconds.	The default is 20
Retry	Maximum number of server detection attempts.	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3
Action	Action to be performed when the detection attempts reaches the maximum number.	N/A	Enumeration: 1—log 2—trap 3—Both	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal Web server is on the public network, the length of characters is 0.
CaptiveBypass	Captive bypass for ios or android	N/A	Enumeration: 0—default 1—enable 2—optimize enable 5—ios enable 6—android enable	N/A

Portal/UrlParams

XML structure

```

<Portal>
  <UrlParams>
    <UrlParam>
      <WebServerName></WebServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</Portal>

```

Table description

Item	Description
Table description	Portal WebServer parameter information table
Table type	Multi-instance table
Feature name	Portal
Table name	UrlParams
Row name	UrlParam
Restrictions	There is no limit on the number of parameters carried in a Web server URL.
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
ParamName	Parameter name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column configures the parameter name carried in the redirect URL.
ParamType	Parameter type	N/A	Enumeration: • 0—source-address • 1—source-mac • 2—original-url • 3—selfDefine	This column must be defined.
SelfDefValue	Self-defined parameter	N/A	String. Length: 1 to 256 characters.	This column takes effect when the ParamType is selfDefine.

Portal/FreeRule

XML structure

```
<Portal>
  <FreeRules>
    <FreeRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
```

```

<Description></Description>
<Layer3>
  <SrcIPAddr></SrcIPAddr>
  <SrcIPAddrLen></SrcIPAddrLen>
  <SrcProtocolType></SrcProtocolType>
  <SrcPortStart></SrcPortStart>
  <SrcPortEnd></SrcPortEnd>
  <DstIPAddr></DstIPAddr>
  <DstIPAddrLen></DstIPAddrLen>
  <DstProtocolType></DstProtocolType>
  <DstPortStart></DstPortStart>
  <DstPortEnd></DstPortEnd>
</Layer3>
<Layer2>
  <SrcIfIndex></SrcIfIndex>
  <SrcVlan></SrcVlan>
  <SrcMacAddr></SrcMacAddr>
</Layer2>
<HostName></HostName>
<ObjGroupName></ObjGroupName>
</FreeRule>
</FreeRules>
</Portal>

```

Table information

Item	Description
Table description	Portal FreeRule information table
Table type	Multi-instance table
Feature name	Portal
Table name	FreeRules
Row name	FreeRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
RuleID	Portal-free rule number	Index	Non-negative integer.	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
IsAllotID	Whether ID is allocated automatically		Boolean: - true—Yes - false—No	N/A
Description	Description for the portal free rule		String, Length: 1 to 255 characters.	N/A
Layer3	N/A	Data structure	Members include: - SrcIPAddr - SrcIPAddrLen - SrcProtocolType - SrcPortStart - SrcPortEnd - DstIPAddr - DstIPAddrLen - DstProtocolType - DstPortStart - DstPortEnd	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	When the SrcIPAddr is the IPv4 address type, the value range is 0 to 32. When the SrcIPAddr is the IPv6 address type, the value range is 0 to 128.
SrcProtocolType	Source protocol type	N/A	Enumeration: 6—TCP 17—UDP	When SrcProtocolType is configured, SrcPortStart and SrcPortEnd must be configured and use the same protocol type. Currently, only one port is supported, so SrcPortStart and SrcPortEnd must be the same.
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 address example: 1.0.0.1 IPv6 address example: 2001:12::1:2
DstIPAddrLen	Subnet mask length of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	When DstIPAddr is IPv4 address type, the value range is 0 to 32. When DstIPAddr is IPv6 address type, the value range is 0 to 128.
DstProtocolType	Destination protocol type	N/A	Enumeration: 6—TCP 17—UDP	When DstProtocolType is configured, DstPortStart and DstPortEnd must be configured and use the same protocol type. Currently, only one port is supported, so DstPortStart and DstPortEnd must be the same.
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
Layer2	N/A	Data structure	Members include: - SrcIfIndex - SrcVlan - SrcMacAddr	N/A
SrcIfIndex	Source interface index	N/A	Source interface index.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	Example: 00-0c-af-e3-5d-c0.
ObjGroupName	Source object group		String, Length: 1 to 31 characters.	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
HostName	Host name	N/A	String. Length: 1 to 253 characters.	Case-insensitive and can contains letters, digits, hyphens(-), dots (.), underscores (_), and wildcard(*). It must not be "ip" or "ipv6".

Portal/Interfaces

XML structure

```

<Portal>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthorationCheck>
        <Userprofile></Userprofile>
        <Acl></Acl>
      </AuthorationCheck>
      <VsrpInStance></VsrpInStance>
    </Interface>
  </Interfaces>
</Portal>

```

Table description

Item	Description
Table description	Portal interface information table
Table type	Muti-instance table
Feature name	Portal
Table name	Interfaces
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
AuthorationCheck	N/A	Data structure	Members include: - Userprofile - Acl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: - true—Yes - false—No	N/A
Acl	Whether strict check is enabled for authorized ACL	N/A	Boolean: - true—Yes - false—No	N/A
VsrpInStance	VSRP instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Portal/IPv4Interfaces

XML structure

```

<Portal>
  <IPv4Interfaces>
    <IPv4Interface>
      <IfIndex></IfIndex>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
    </IPv4Interface>
  </IPv4Interfaces>
</Portal>

```

```

    </UserDetect>
    <ExtendAuthDomain></ExtendAuthDomain>
    <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
    </TempPass>
    <MacSvrName></MacSvrName>
    <PreAuthPolicy></PreAuthPolicy>
</IPv4Interface>
</IPv4Interfaces>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv4 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4Interfaces
Row name	IPv4Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column name	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
Method	IPv4 portal authentication method	N/A	Enumeration: 0—Direct 1—Layer3 2—Redhcp	N/A
WebServer	N/A	Data structure	Members include: - WebServerName - EscapeEnable	Both members must be included at the same time.

Column name	Column name	Column type	Data type and restrictions	Remarks
WebServerName	Name of the IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv4 portal Web server	N/A	Boolean: • true—Yes • false—No	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv4 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	N/A	Data structure	Members include: • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry	UserDetectType must be set, and other columns use default settings if not set.
UserDetectType	IPv4 user detection type	N/A	Enumeration: • 0—ARP • 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	The default is 180 seconds.
UserDetectInterval	IPv4 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	The default is 3 seconds.
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3.
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column name	Column type	Data type and restrictions	Remarks
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	TempPassEnable must be included, and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disabled 1—Enabled	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 MacTrigger server name		String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv4 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

Portal/IPv6Interfaces

XML structure

```

<Portal>
  <IPv6Interfaces>
    <IPv6Interface>
      <IfIndex></IfIndex>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
    </IPv6Interface>
  </IPv6Interfaces>
</Portal>

```

```

    <TempPass>
      <TempPassEnable></TempPassEnable>
      <TempPassPeriod></TempPassPeriod>
    </TempPass>
    <MacSvrName></MacSvrName>
    <PreAuthPolicy></PreAuthPolicy>
  </IPv6Interface>
</IPv6Interfaces>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv6 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6Interfaces
Row name	IPv6Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Method	IPv6 authentication method	N/A	Enumeration: 0.Direct 1.Layer3	N/A
WebServer	N/A	Data structure	Members include: - WebServerName - EscapeEnable	Both members must be included at the same time.
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv6 Web server	N/A	Boolean: - true—Yes - false—No	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv6 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	N/A	Data structure	Members include: - UserDetectType - UserDetectIdleTime - UserDetectInterval - UserDetectRetry	UserDetectType must be set, other columns use default settings if not set.
UserDetectType	IPv6 user detection type	N/A	Enumeration: 1—ND 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	The default is 180 seconds.
UserDetectInterval	IPv6 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	The default is 3 seconds.
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	The default is 3.
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	TempPassEnable must be included, and TempPassPeriod uses the default if not set.

Column name	Description	Column type	Data type and restrictions	Remarks
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disabled 1—Enabled	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 MacTrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv6 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

Portal/IPv4ServiceTemplates

This table contains portal IPv4 service template information.

XML structure

```

<Portal>
  <IPv4ServiceTemplates>
    <IPv4ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
    </IPv4ServiceTemplate>
  </IPv4ServiceTemplates>
</Portal>

```

```

        </TempPass>
        <MacSvrName></MacSvrName>
    </IPv4ServiceTemplate>
</IPv4ServiceTemplates>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	IPv4ServiceTemplates
Table type	Multi-instance table
Row name	IPv4ServiceTemplate
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv4 portal authentication method	N/A	Enumeration: 0—Direct 1—Layer3 2—Redhcp	N/A
WebServer	N/A	Data structure	Members include: WebServerName EscapeEnable	Both members must be included at the same time.
WebServerName	IPv4 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv4 Web server	N/A	Boolean: - true - false	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the fail-permit enable IPv4 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry	UserDetectType must be included, and other columns are specified as default if not set.
UserDetectType	IPv4 user detection type	N/A	Enumeration: 0—ARP 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv4 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass Feature that Temporarily permits internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	TempPassEnable must be included and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disabled 1—Enabled	N/A
TempPassPeriod	Time interval During which internet access is permitted	N/A	Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 MacTrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/ IPv6ServiceTemplates

This table contains portal IPv6 service template information.

XML structure

```
<Portal>
  <IPv6ServiceTemplates>
    <IPv6ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <ExtendAuthDomain></ExtendAuthDomain>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
    </IPv6ServiceTemplate>
  </IPv6ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv6ServiceTemplates
Table type	Multi-instance table
Row name	IPv6ServiceTemplate

Item	Description
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv6 portal authentication method	N/A	Enumeration: 0—Direct 1—Layer3	N/A
WebServer	N/A	Data structure	Members include: WebServerName EscapeEnable	Both members must be included at the same time.
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv6 Web server	N/A	Boolean: - true. - false.	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry	UserDetectType must be included, and other columns are specified as default if not set.
UserDetectType	IPv6 user detection type	N/A	Enumeration: 1—ND 3—ICMPv6	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserDetectIdleTime	IPv6 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv6 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass Feature that Temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	TempPassEnable must be included and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disabled 1—Enabled	N/A
TempPassPeriod	Time interval During which Internet access is permitted	N/A	Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 MacTrigger Server Name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/WebRedirects

XML structure

```

<Portal>
  <WebRedirects>
    <WebRedirect>
      <IfIndex></IfIndex>
      <IPv4WebRedirect>
        <IPv4WebRedirectUrl></IPv4WebRedirectUrl>
        <IPv4WebRedirectInterVal></IPv4WebRedirectInterVal>
      </IPv4WebRedirect>
      <IPv6WebRedirect>
        <IPv6WebRedirectUrl></IPv6WebRedirectUrl>
        <IPv6WebRedirectInterVal></IPv6WebRedirectInterVal>
    </WebRedirect>
  </WebRedirects>
</Portal>

```

```

        </IPv6WebRedirect>
    </WebRedirect>
</WebRedirects>
</Portal>

```

Table description

Item	Description
Table description	Portal WebRedirects information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebRedirects
Row name	WebRedirect
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IPv4WebRedirect	N/A	Data structure	Members include: - IPv4WebRedirectUrl - IPv4WebRedirectIntervalVal	N/A
IPv4WebRedirectUrl	Redirect URL for IPv4 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv4WebRedirectInterval	URL redirect interval for IPv4 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	The default is 86400 seconds.
IPv6WebRedirect	N/A	Data structure	Members include: - IPv6WebRedirectUrl - IPv6WebRedirectIntervalVal	N/A
IPv6WebRedirectUrl	Redirect URL for IPv6 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv6WebRedirectInterval	URL redirect interval for IPv6 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	The default is 86400 seconds.

Portal/IPv4AuthNetworks

XML structure

```
<Portal>
  <IPv4AuthNetWorks>
    <IPv4AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthMask></SrcAuthMask>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthMask></DstAuthMask>
    </IPv4AuthNetWork>
  </IPv4AuthNetWorks>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4AuthNetWorks
Row name	IPv4AuthNetWork
Restrictions	NO
Support for row creation and deletion	YES

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
SrcAuthMask	Subnet mask length of the source authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Column name	Description	Column type	Data type and restrictions	Remarks
DstAuthAddr	Destination authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
DstAuthMask	Subnet mask length of the destination authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Portal/Ipv6AuthNetworks

XML structure

```

<Portal>
  <IPv6AuthNetWorks>
    <IPv6AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthPrefix></SrcAuthPrefix>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthPrefix></DstAuthPrefix>
    </IPv6AuthNetWork>
  </IPv6AuthNetWorks>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv6 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6AuthNetWorks
Row name	IPv6AuthNetWork
Restrictions	No
Support for row creation and deletion	Yes

Columns

Column name	Column name	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcAuthPrefix	Prefix length of the source authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstAuthAddr	Destination authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstAuthPrefix	Prefix length of the destination authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A

Portal/GlobalConf

XML structure

```

<Portal>
  <GlobalConf>
    <RoamEnable></RoamEnable>
    <NasPortIdFormat></NasPortIdFormat>
    <VsrpPort></VsrpPort>
    <MaxUser></MaxUser>
    <ClientGatewayIfIndex></ClientGatewayIfIndex>
    <CaptiveOptDelay></CaptiveOptDelay>
  </GlobalConf>
</Portal>

```

Table description

Item	Description
Table description	Portal GlobalConf information table
Table type	Multi-instance table

Item	Description
Feature name	Portal
Table name	GlobalConf
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
RoamEnable	Whether the portal roaming feature is enabled	N/A	Boolean: - true—Yes - false—No	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: 1—Format1 2—Format2 3—Format3 4—Format4	N/A
VsrpPort	TCP port for portal backup	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
MaxUser	Maximum number of users on the device	N/A	Non-negative integer. The value range: 1 to 4294967295.	N/A
ClientGatewayIfIndex	Index of the gateway interface for clients to access the AC	N/A	Non-negative integer	N/A
CaptiveOptDelay	The timeout time for optimized captive bypass feature	N/A	Non-negative integer Value rang: 6 to 60 seconds Default: 6 seconds	N/A

Portal/ProxyConf

XML structure

```
<Portal>
  <ProxyConf>
```

```

    <Enable></Enable>
    <SourceIP></SourceIP>
    <PortalServerPort></PortalServerPort>
    <MacTriggerServerIP></MacTriggerServerIP>
    <MacTriggerServerPort></MacTriggerServerPort>
  </ProxyConf>
</Portal>

```

Table description

Item	Description
Table description	Portal proxy configuration table
Table type	Single-instance table
Feature name	Portal
Table name	PorxyConf
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Enable	Enable the portal proxy feature	N/A	Boolean: - true—Yes - false—No	N/A
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	This column specifies the source address for the packets actively sent to the server. The IP address of the output interface is used if not specified.
PortalServerPort	Destination port	N/A	Non-negative integer. Value range: 1 to 65535.	This column specifies the destination port on the device. The default port is 2000.
MacTriggerServerIP	IP address of the MAC binding server	N/A	IPv4: String, dotted decimal notation.	By default, the device does not specify the IP address and port number of the MAC binding server.
MacTriggerServerPort	Port number of the MAC binding server	N/A	Non-negative integer. Value range: 1 to 65535.	The default port number is 50100.

Portal/LocalWebServers

XML structure

```
<Portal>
  <LocalWebServers>
    <LocalWebServer>
      <Type></Type>
      <SSLServerPolicy></SSLServerPolicy>
      <DefLogonPage></DefLogonPage>
      <TCPPort></TCPPort>
    </LocalWebServer>
  </LocalWebServers>
</Portal>
```

Table description

Item	Description
Table description	Portal LocalWebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	LocalWebServers
Row name	PortalServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP 1—HTTPS	This column configures the protocol used between the local portal Web server and the client.
SSLServerPolicy	SSL server policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column takes effect only when the Type is HTTPS.
DefLogonPage	Default authentication page file	N/A	String. Length: 1 to 91 characters.	Case-sensitive and contains letters, digits, dots (.), and underscores (_).

Column name	Description	Column type	Data type and restrictions	Remarks
TCPPort	TCP port number	N/A	Non-negative integer. Value range: 1 to 65535.	The default HTTP listening port number is 80 and the default HTTPS listening port number is 443.

Portal/ SelfDefSsidPage

This table contains information about the self-defined SSID page file.

XML structure

```

<Portal>
  <SelfDefSsidPages>
    <SelfDefSsidPage>
      <Type></Type>
      <ssid></ssid>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidPage>
  </SelfDefSsidPages>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidPages
Table type	Multi-instance table
Row name	SelfDefSsidPage
Restrictions	Local portal server can configure self-defined SSID page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.

Column name	Column description	Column type	Data type and restrictions	Remarks
LogonPageFile	Authentication page file	N/A	String, including letters, numbers, and underscores(_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypePage

This table contains information about the self-defined device type page file.

XML structure

```
<Portal>
  <SelfDefDevTypePages>
    <SelfDefDevTypePage>
      <Type></Type>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypePage>
  </SelfDefDevTypePages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypePages
Table type	Multi-instance table
Row name	SelfDefDevTypePage
Restrictions	Local portal server can configure self-defined device type page file
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local Web server.
DeviceType	Device type	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device type to the designated page file.

Column name	Column description	Column type	Data type and restrictions	Remarks
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefPage

This table contains information about the self-defined page file.

XML structure

```

<Portal>
  <SelfDefPages>
    <SelfDefPage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefPage>
  </SelfDefPages>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefPages
Table type	Multi-instance table
Row name	SelfDefPage
Restrictions	Local portal server can configure self-defined SSID and device type page file.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local Web server.

Column name	Column description	Column type	Data type and restrictions	Remarks
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceType	Device type	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/ExtendAuthServers

This table contains information about portal extended authentication servers.

XML structure

```

<Portal>
  <ExtendAuthServers>
    <ExtendAuthServer>
      <Type></Type>
      <AuthUrl></AuthUrl>
      <AppId></AppId>
      <AppKey></AppKey>
      <RedirectUrl></RedirectUrl>
      <MailProtocol></MailProtocol>
      <MailDomain>
        <MailDomainName></MailDomainName>
      </MailDomain>
    </ExtendAuthServer>
  </ExtendAuthServers>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	ExtendAuthServers
Table type	Multi-instance table
Row name	ExtendAuthServer
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Extended authentication service type	Index	Enumeration: 0—QQ. 1—Mail.	N/A
AuthUrl	Authentication URL	N/A	String. Length: 1 to 256 characters. Default: https://graph.qq.com (when the Type field is specified as 0).	This column takes effect only when the Type field is specified as 0.
AppId	App ID which supports for extended authentication	N/A	String. Length: 1 to 32 characters.	This column takes effect only when the Type field is specified as 0. The default value is the App ID of the Lvzhou application in the QQ open platform.
AppKey	The key of App ID	N/A	String. Length: 1 to 64 characters.	This column takes effect only when the Type field is specified as 0, and can only be used as plain text input and cannot return to users. The default value is the App key of the Lvzhou application in the QQ open platform.
RedirectUrl	Authentication redirect URL	N/A	String. Length: 1 to 256 characters.	This column takes effect only when the Type field is specified as 0. The default value is the callback address of the Lvzhou application in the QQ open platform.
MailProtocol	Mail authentication protocol type	N/A	Enumeration: 1—POP3. 2—IMAP. 3—POP3 and IMAP.	This column takes effect only when the Type field is specified as 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
MailDomain	Mail domain	Data structure	Members include: MailDomainName	This column takes effect only when the Type field is specified as 1. MailDomainName must be set. You can specify 1 to 16 domain names.
MailDomainName	Mail domain name	N/A	String. Length: 1 to 255 characters	The value of the column must be the Email domain format. For example: @qq.com.

Portal/MacServer

This table contains information about portal mac trigger servers.

XML structure

```

<Portal>
  <MacTriggerServers>
    <MacTriggerServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
        <Key></Key>
      </IPAddressInfo>
      <Threshold></Threshold>
      <NasType></NasType>
      <MacSvrPort></MacSvrPort>
      <Detect>
        <MacSvrRetries></MacSvrRetries>
        <MacSvrRetryInterval></MacSvrRetryInterval>
      </Detect>
      <MacServerType></MacServerType>
      <Version></Version>
      <MacSvrAuthTimeOut></MacSvrAuthTimeOut>
      <AgingTime></AgingTime>
      <LocalBindingEnable></LocalBindingEnable>
      <LocalBindingAgingTime></LocalBindingAgingTime>
      <CloudBindingEnable></CloudBindingEnable>
    </MacTriggerServer>
  </MacTriggerServers>
</Portal>

```

```

    </MacTriggerServers>
</portal>

```

Table description

Item	Description
Feature name	Portal
Table name	MacTriggerServers
Table type	Multi-instance table
Row name	MacTriggerServer
Restrictions	None

Columns

Column name	Description	Column type	Data type and restrictions	Remarks
Name	Portal mac-trigger server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal mac-trigger server address	Data structure	Members include: IPAddress VRF	N/A
IPAddress	IP address of the portal mac-trigger server	N/A	IPv4: String, dotted decimal notation.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal mac-trigger server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal mac-trigger server and the device. It supports only plaintext.
Threshold	the threshold for MAC-triggered authentication	N/A	Unsigned integer. Value range: 0 to 10240000	The default free-traffic threshold is 0 bytes.
NasType	NAS-Port-Type value	N/A	Unsigned integer. Value range: 1 to 255	The default NAS-Port-Type value carried in RADIUS requests is 0.

Column name	Description	Column type	Data type and restrictions	Remarks
MacSvrPort	UDP port number	N/A	Unsigned integer. Value range: 1 to 65534	The default MAC binding server listens for MAC binding query packets on UDP port 50100.
Detect	Portal Mac-trigger server detection	Data structure	Members include: • Retry • Interval	N/A
MacSvrRetries	Maximum number of portal Mac-trigger server detection attempts	N/A	Unsigned integer. Value range: 1~10	The default maximum number of query attempts is 3.
MacSvrRetryInterval	Detection interval	N/A	Unsigned integer. Value range:1~60	The default maximum number of query interval is 1 second.
MacServerType	a MAC binding server type	N/A	Boolean: • 0.imc • 1.cmcc	The default type of a MAC binding server is IMC.
Version	Version number	N/A	Unsigned integer. Value range:1~3	The default version of the portal protocol is 1.
MacSvrAuthTimeOut	Set the timeout time the device waits for portal authentication to complete	N/A	Unsigned integer. Value range:1~15	The default portal authentication timeout time is 3 minutes.
AgingTime	Set the aging time for MAC-trigger entries	N/A	Unsigned integer. Value range:60~7200	The default aging time for MAC-trigger entries is 300 seconds.
LocalBindingEnable	enable portal MAC-Trigger local-binding	N/A	Boolean: • true—Yes • false—No	N/A
LocalBindingAgingTime	the aging time for MAC-trigger local-binding entry	N/A	Unsigned integer. Value range:1~2160	N/A
CloudBindingEnable	Enable portal MAC-Trigger cloud binding	N/A	Boolean: • true—Yes • false—No	N/A

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Portal

Portal/PortalServers

XML structure

```
<Portal>
  <PortalServers>
    <PortalServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
      </IPAddressInfo>
      <Port></Port>
      <Detect>
        <TimeOut></TimeOut>
        <Action></Action>
      </Detect>
      <UserSyncTime></UserSyncTime>
      <Status></Status>
    </PortalServer>
  </PortalServers>
</Portal>
```

Table description

Item	Description
Table description	Portal Server information table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServers
Row name	PortalServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Portal server name	Index	String, case-sensitive. Length:1 to32characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPAddressInfo	Portal server address	Data structure	Members include: - IPAddress - VRF	N/A
IPAddress	IP address of the portal server	N/A	IPv4:String,dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length:1 to 31 characters.	N/A
Port	Port number	N/A	Value range: 1 to 65534.	N/A
Detect	Portal server detection	Data structure	Members include: - TimeOut - Action	N/A
TimeOut	Detect timeout	N/A	Value range: 10 to 3600 seconds.	N/A
Action	Action to be performed when the detection times out	N/A	Enumeration: 1—log 2—trap 3—Both	N/A
UserSyncTime	User synchronization time	N/A	Non-negative integer. Value range: 60 to 18000 seconds.	N/A

Portal/WebServer

XMLstructure

```

<Portal>
  <WebServers>
    <WebServer>
      <Name></Name>
      <Url></Url>
      <Detect>
        <Interval></Interval>
        <Retry></Retry>
        <Action></Action>
      </Detect>
      <VRF></VRF>
      <CaptiveBypass></CaptiveBypass>
      <IPv4Status></IPv4Status>
      <IPv6Status></IPv6Status>
    </WebServer>
  </WebServers>
</Portal>

```

Table description

Item	Description
Description	Portal WebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	WebServers
Row name	WebServer

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
Url	Redirect URL	N/A	String. Length: 1 to 256 characters.	N/A
Detect	Portal Web server detection	Data structure	Members include: - Interval - Retry - Action	N/A
Interval	Detection interval	N/A	Non-negative integer. Value range: 10 to 1200 seconds.	N/A
Retry	Maximum number of portal Web server detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	N/A
Action	Action to be performed when server detection reaches the maximum number	N/A	Enumeration: 1—log 2—trap 3—Both	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
CaptiveBypass	Captive bypass for ios or android	N/A	Enumeration: 0—default 1—enable 2—optimize enable 5—ios enable 6—android enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Status	Status of the IPv4 portal Web server	N/A	Enumeration: 0—Up 1—Down	N/A
IPv6Status	Status of the IPv6 portal Web server	N/A	Enumeration: 0—Up 1—Down	N/A

Portal/UrlParams

XMLstructure

```

<Portal>
  <UrlParams>
    <UrlParam>
      <WebServerName></WebServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</Portal>

```

Table description

Item	Description
Table description	Portal WebServer parameter information table
Table type	Multi-instance table
Feature name	Portal
Table name	UrlParams
Row name	UrlParam
Restrictions	There is no limit on the number of parameters carried in a Web server URL.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	This column configures the protocol type for the local portal Web server.
ParamName	Parameter name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.

Column name	Column description	Column type	Data type and restrictions	Remarks
ParamType	Parameter type	N/A	Enumeration: 0—source-address 1—source-mac 2—original-url 3—selfDefine	This column assigns a specific device type to the designated page file.
SelfDefValue	Self-defined parameter	N/A	String Length: 1 to 256 characters.	N/A
WebServerName	Name of the portal Web server	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/FreeRule

XMLstructure

```

<Portal>
  <FreeRules>
    <FreeRule>
      <RuleID></RuleID>
      <IsAllotID></IsAllotID>
      <Description></Description>
      <Layer3>
        <SrcIPAddr></SrcIPAddr>
        <SrcIPAddrLen></SrcIPAddrLen>
        <SrcProtocolType></SrcProtocolType>
        <SrcPortStart></SrcPortStart>
        <SrcPortEnd></SrcPortEnd>
        <DstIPAddr></DstIPAddr>
        <DstIPAddrLen></DstIPAddrLen>
        <DstProtocolType></DstProtocolType>
        <DstPortStart></DstPortStart>
        <DstPortEnd></DstPortEnd>
      </Layer3>
      <Layer2>
        <SrcIfIndex></SrcIfIndex>
        <SrcVlan></SrcVlan>
        <SrcMacAddr></SrcMacAddr>
      </Layer2>
      <ObjGroupName></ObjGroupName>
      <HostName></HostName>
    </FreeRule>
  </FreeRules>
</Portal>

```


Table description

Item	Description
Table description	Portal FreeRule information table
Table type	Multi-instance table
Feature name	Portal
Table name	FreeRules
Row name	FreeRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-free rule number	Index	Non-negative integer.	N/A
IsAllotID	Whether ID is allocated automatically	N/A	Boolean: true—Yes false—No	N/A
Description	Description for the portal free rule	N/A	String,Length: 1 to 255 characters.	N/A
Layer3	Layer3	Data structure	Members include: - SrcIPAddr - SrcIPAddrLen - SrcProtocolType - SrcPortStart - SrcPortEnd - DstIPAddr - DstIPAddrLen - DstProtocolType - DstPortStart - DstPortEnd	N/A
SrcIPAddr	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPAddrLen	Subnet mask length of the source IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
SrcProtocolType	Source protocol type	N/A	Enumeration: 6—TCP 17—UDP	N/A
SrcPortStart	Start port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortEnd	End port number for the source protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
DstIPAddrLen	Subnet mask of the destination IP address	N/A	Non-negative integer. Value range: 0 to 128.	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: 6—TCP 17—UDP	N/A
DstPortStart	Start port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535.	N/A
DstPortEnd	End port number for the destination protocol	N/A	Non-negative integer. Value range: 0 to 65535,	N/A
Layer2	Layer2	Data structure	Members include: - SrcIfIndex - SrcVlan - SrcMacAddr	N/A
SrcIfIndex	Source interface index	N/A	Source interface index.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
ObjGroupName	Source object group	N/A	String, Length: 1 to 31 characters.	N/A
HostName	Host name	N/A	String. Length: 1 to 253 characters.	N/A

Portal/Interfaces

XMLstructure

```

<Portal>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthorationCheck>

```

```

    <Userprofile></Userprofile>
    <Acl></Acl>
</AuthorisationCheck>
<VsrpInStance></VsrpInStance>
<VsrpStatus></VsrpStatus>
</Interface>
</Interfaces>
</Portal>

```

Table description

Item	Description
Table description	Portal interface information table
Table type	Muti-instance table
Feature name	Portal
Table name	Interfaces
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
AuthorisationCheck	AuthorisationCheck	Data structure	Members include: - Userprofile - Acl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: - true—Yes - false—No	N/A
Acl	Whether strict check is enabled for the authorized ACL	N/A	Boolean: - true—Yes - false—No	N/A
VsrpInStance	VSRP instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
VsrpStatus	VSRP status	N/A	Enumeration: 1—Master 2—Backup 3—Down 4—BUTT	N/A

Portal/IPv4Interfaces

XMLstructure

```
<Portal>
  <IPv4Interfaces>
    <IPv4Interface>
      <IfIndex></IfIndex>
      <OnlineUserNum></OnlineUserNum>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <PreAuthPoolName></PreAuthPoolName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <PreAuthPolicy></PreAuthPolicy>
    </IPv4Interface>
  </IPv4Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal IPv4 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4Interfaces
Row name	IPv4Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
OnlineUserNum	IPv4 online users	N/A	Value range: 0 to $2^{32} - 1$.	N/A
Method	IPv4 authentication method	N/A	Enumeration: 0—Direct 1—Layer3 2—Redhcp	N/A
WebServer	WebServer	Data structure	Members include: - WebServerName - EscapeEnable	N/A
WebServerName	Name of the IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv4 portal Web server	N/A	Boolean: - true—Yes - false—No	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
Ipv4BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv4 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect		Data structure	Members include: - UserDetectType - UserDetectIdleTime - UserDetectInterval - UserDetectRetry	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: 0—ARP 2—ICMP	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserDetectIdleTime	IPv4 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	N/A
UserDetectInterval	IPv4 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	N/A
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	N/A
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disable 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 Mactrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv4 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

Portal/IPv6Interfaces

XMLstructure

```

<Portal>
  <IPv6Interfaces>
    <IPv6Interface>
      <IfIndex></IfIndex>
      <OnlineUserNum></OnlineUserNum>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
    </IPv6Interface>
  </IPv6Interfaces>
</Portal>

```

```

<MaxUser></MaxUser>
<BasIP></BasIP>
<EscapeSvrName></EscapeSvrName>
<PreAuthPoolName></PreAuthPoolName>
<UserDetect>
  <UserDetectType></UserDetectType>
  <UserDetectIdleTime></UserDetectIdleTime>
  <UserDetectInterval></UserDetectInterval>
  <UserDetectRetry></UserDetectRetry>
</UserDetect>
<TempPass>
  <TempPassEnable></TempPassEnable>
  <TempPassPeriod></TempPassPeriod>
</TempPass>
<MacSvrName></MacSvrName>
<PreAuthPolicy></PreAuthPolicy>
</IPv6Interface>
</IPv6Interfaces>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv6 interface information table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6Interfaces
Row name	IPv6Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
OnlineUserNum	Number of IPv6 online users	N/A	Value range: 0 to $2^{32} - 1$.	N/A
Method	IPv6 authentication method	N/A	Enumeration: 0—Direct 1—Layer3	N/A
WebServer	WebServer	Data structure	Members include: - WebServerName - EscapeEnable	N/A
WebServerName	IPv6 Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EscapeEnable	Whether the fail-permit feature is enabled for the IPv6 Web server	N/A	Boolean: - true—Yes - false—No	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users on the interface	N/A	Non-negative integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPoolName	Name of the IPv6 preauthentication user pool	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
UserDetect	UserDetect	Data structure	Members include: - UserDetectType - UserDetectIdleTime - UserDetectInterval - UserDetectRetry	N/A
UserDetectType	IPv6 user detection type	N/A	Enumeration: 1—ND 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Non-negative integer. Value range: 60 to 3600 seconds.	N/A
UserDetectInterval	IPv6 user detection interval	N/A	Non-negative integer. Value range: 1 to 1200 seconds.	N/A
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Non-negative integer. Value range: 1 to 10.	N/A
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disable 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 Mactrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
PreAuthPolicy	IPv6 Pre-Auth policy name	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A

Portal/IPv4ServiceTemplates

This table contains portal IPv4 service template information.

XML structure

```

<Portal>
  <IPv4ServiceTemplates>
    <IPv4ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <ExtendAuthDomain></ExtendAuthDomain>
    </IPv4ServiceTemplate>
  </IPv4ServiceTemplates>
</Portal>

```

```

    </IPv4ServiceTemplates>
  </Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	IPv4ServiceTemplates
Table type	Multi-instance table
Row name	IPv4ServiceTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
Method	IPv4 portal authentication method	N/A	Enumeration: 0—Direct 1—Layer3 2—Redhcp	N/A
WebServer	N/A	Data structure	Members include: - WebServerName - EscapeEnable	N/A
WebServerName	IPv4 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv4 portal Web server	N/A	Boolean: - true. - false.	N/A
Domain	IPv4 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv4 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv4 user authentication	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EscapeSvrName	Name of the IPv4 portal server with the fail-permit feature enabled	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: - UserDetectType - UserDetectIdleTime - UserDetectInterval - UserDetectRetry	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: 0—ARP 2—ICMP	N/A
UserDetectIdleTime	IPv4 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv4 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv4 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A
ExtendAuthDomain	IPv4 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disable 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv4 Mactrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/IPv6ServiceTemplates

This table contains portal IPv6 service template information.

XML structure

```
<Portal>
  <IPv6ServiceTemplates>
    <IPv6ServiceTemplate>
      <Name></Name>
      <Method></Method>
      <WebServer>
        <WebServerName></WebServerName>
        <EscapeEnable></EscapeEnable>
      </WebServer>
      <Domain></Domain>
      <MaxUser></MaxUser>
      <BasIP></BasIP>
      <EscapeSvrName></EscapeSvrName>
      <UserDetect>
        <UserDetectType></UserDetectType>
        <UserDetectIdleTime></UserDetectIdleTime>
        <UserDetectInterval></UserDetectInterval>
        <UserDetectRetry></UserDetectRetry>
      </UserDetect>
      <TempPass>
        <TempPassEnable></TempPassEnable>
        <TempPassPeriod></TempPassPeriod>
      </TempPass>
      <MacSvrName></MacSvrName>
      <ExtendAuthDomain></ExtendAuthDomain>
    </IPv6ServiceTemplate>
  </IPv6ServiceTemplates>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	IPv6ServiceTemplates
Table type	Multi-instance table
Row name	IPv6ServiceTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Method	IPv6 portal authentication method	N/A	Enumeration: 0—Direct 1—Layer3	N/A
WebServer	N/A	Data structure	Members include: - WebServerName - EscapeEnable	N/A
WebServerName	IPv6 portal Web server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
EscapeEnable	Enable the fail-permit feature for the IPv6 portal Web server	N/A	Boolean: - true. - false.	N/A
Domain	IPv6 authentication domain	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
MaxUser	Maximum number of IPv6 users	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
BasIP	BAS-IP attribute specified for IPv6 user authentication	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
EscapeSvrName	Name of the fail-permit enabled IPv6 portal server	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
UserDetect	N/A	Data structure	Members include: - UserDetectType - UserDetectIdleTime - UserDetectInterval - UserDetectRetry	N/A
UserDetectType	IPv6 user detection type	N/A	Enumeration: 1—ND 3—ICMPv6	N/A
UserDetectIdleTime	IPv6 user detection idle time	N/A	Unsigned integer. Value range: 60 to 3600 seconds. Default: 180 seconds.	N/A
UserDetectInterval	IPv6 user detection time interval	N/A	Unsigned integer. Value range: 1 to 1200 seconds. Default: 3 seconds.	N/A
UserDetectRetry	Number of IPv6 user detection attempts	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ExtendAuthDomain	IPv6 extended authentication domain	N/A	String. Length: 1 to 255 characters.	N/A
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: - TempPassEnable - TempPassPeriod	N/A
TempPassEnable	TempPass status	N/A	Enumeration: 0—Disable 1—Enable	N/A
TempPassPeriod	Time interval during which Internet access is permitted	N/A	Unsigned integer. Value range: 10 to 180 seconds. Default: 30 seconds.	N/A
MacSvrName	IPv6 Mactrigger server name	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Portal/WebRedirects

XMLstructure

```

<Portal>
  <WebRedirects>
    <WebRedirect>
      <IfIndex></IfIndex>
      <IPv4WebRedirect>
        <IPv4WebRedirectUrl></IPv4WebRedirectUrl>
        <IPv4WebRedirectInterVal></IPv4WebRedirectInterVal>
      </IPv4WebRedirect>
      <IPv6WebRedirect>
        <IPv6WebRedirectUrl></IPv6WebRedirectUrl>
        <IPv6WebRedirectInterVal></IPv6WebRedirectInterVal>
      </IPv6WebRedirect>
    </WebRedirect>
  </WebRedirects>
</Portal>

```

Table description

Item	Description
Table description	Portal WebRedirects information table
Table type	Multi-instance table
Feature name	Portal

Item	Description
Table name	WebRedirects
Row name	WebRedirect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
IPv4WebRedirect	IPv4WebRedirect	Data structure	Members include: - IPv4WebRedirectUrl - IPv4WebRedirectInterval	N/A
IPv4WebRedirectUrl	Redirect URL for IPv4 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv4WebRedirectInterval	URL redirect intervals for IPv4 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	N/A
IPv6WebRedirect	IPv6WebRedirect	Data structure	Members include: - IPv6WebRedirectUrl - IPv6WebRedirectInterval	N/A
IPv6WebRedirectUrl	Redirect URL for IPv6 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv6WebRedirectInterval	URL redirect interval for IPv6 users	N/A	Non-negative integer. Value range: 60 to 86400 seconds.	N/A

Portal/Ipv4AuthNetworks

XML structure

```

<Portal>
  <IPv4AuthNetworks>
    <IPv4AuthNetwork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthMask></SrcAuthMask>
      <DstAuthAddr></DstAuthAddr>
      <DstAuthMask></DstAuthMask>
    </IPv4AuthNetwork>
  </IPv4AuthNetworks>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv4 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4AuthNetWorks
Row name	IPv4AuthNetWork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv4 users	Index	IPv4: String, dotted decimal notation.	N/A
SrcAuthMask	Subnet mask length of the source authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A
DstAuthAddr	Destination authentication network address for IPv4 users	N/A	IPv4: String, dotted decimal notation.	N/A
DstAuthMask	Subnet mask length of the destination authentication network for IPv4 users	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Portal/Ipv6AuthNetworks

XML structure

```
<Portal>
  <IPv6AuthNetWorks>
    <IPv6AuthNetWork>
      <IfIndex></IfIndex>
      <SrcAuthAddr></SrcAuthAddr>
      <SrcAuthPrefix></SrcAuthPrefix>
      <DstAuthAddr></DstAuthAddr>
```



```

        <DstAuthPrefix></DstAuthPrefix>
    </IPv6AuthNetWork>
</IPv6AuthNetWorks>
</Portal>

```

Table description

Item	Description
Table description	Portal IPv6 authentication-network table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6AuthNetWorks
Row name	IPv6AuthNetWork
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	index	Non-negative integer.	N/A
SrcAuthAddr	Source authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcAuthPrefix	Prefix length of the source authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstAuthAddr	Destination authentication network address for IPv6 users	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstAuthPrefix	Prefix length of the destination authentication network for IPv6 users	N/A	Non-negative integer. Value range: 1 to 128.	N/A

Portal/GlobalConf

XML structure

```

<Portal>
  <GlobalConf>
    <RoamEnable></RoamEnable>
    <NasPortIdFormat></NasPortIdFormat>
  </GlobalConf>
</Portal>

```

```

    <VsrpPort></VsrpPort>
  <MaxUser></MaxUser>
  <ClientGatewayIfIndex></ClientGatewayIfIndex>
  <CaptiveOptDelay></CaptiveOptDelay>
</GlobalConf>
</Portal>

```

Table description

Item	Description
Table description	PortalGlobalConf information table
Table type	Single-instance table
Feature name	Portal
Table name	GlobalConf
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoamEnable	Whether the portal roaming feature is enabled	N/A	Boolean: - true—Yes - false—No	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: 1—Format1 2—Format2	N/A
VsrpPort	TCP port for portal backup	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
MaxUser	Maximum number of users on the device	N/A	Non-negative integer. The value range depends on the device model.	N/A
ClientGatewayIfIndex	Index of the gateway interface for clients to access the AC	N/A	Non-negative integer.	N/A
CaptiveOptDelay	The timeout time for optimized	N/A	Non-negative integer. Value range: 6 to 60 seconds.	N/A

Portal/ProxyConf

XML structure

```
<Portal>
```

```

<ProxyConf>
  <Enable></Enable>
  <SourceIP></SourceIP>
  <PortalServerPort></PortalServerPort>
  <MacTriggerServerIP></MacTriggerServerIP>
  <MacTriggerServerPort></MacTriggerServerPort>
</ProxyConf>
</Portal>

```

Table description

Item	Description
Table description	Portal proxy configuration table
Table type	Single-instance table
Feature name	Portal
Table name	PorxyConf
Row name	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable the portal proxy feature	N/A		N/A
SourceIP	Source IP address	N/A	IPv4: String, dotted decimal notation.	This column specifies the source address for the packets actively sent to the server. The IP address of the output interface is used if not specified.
PortalServerPort	Destination port	N/A	Non-negative integer. Value range: 1 to 65535.	This column specifies the destination port on the device. The default port is 2000.
MacTriggerServerIP	IP address of the MAC binding server	N/A	IPv4: String, dotted decimal notation.	By default, the device does not specify the IP address and port number of the MAC binding server.
MacTriggerServerPort	Port number of the MAC binding server	N/A	Non-negative integer. Value range: 1 to 65535.	The default port number is 50100.

Portal/OnlineUsers

XML structure

```

<Portal>
  <OnlineUsers>

```

```

<OnlineUser>
  <IfIndex></IfIndex>
  <IPAddress></IPAddress>
  <UserName></UserName>
  <MacAddress></MacAddress>
  <VLAN></VLAN>
  <VRF></VRF>
  <ServerName></ServerName>
  <LoginTime></LoginTime>
  <OnlineDuration></OnlineDuration>
  <FlowStats>
    <SendPktNum></SendPktNum>
    <SendByteNum></SendByteNum>
    <RecvPktNum></RecvPktNum>
    <RecvByteNum></RecvByteNum>
  </FlowStats>
  <ObjectGroup></ObjectGroup>
  <InboundFlowRate></InboundFlowRate>
  <OutboundFlowRate></OutboundFlowRate>
  <AccessSwitch></AccessSwitch>
</OnlineUser>
</OnlineUsers>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex.	Index	Non-negative integer.	N/A
IPAddress	IP address of the user.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	N/A
UserName	User name.	N/A	String. Length: 1 to 253 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address of the user.	N/A	MAC address in the HH-HH-HH-HH-HH-HH format.	N/A
VLAN	VLAN where the user resides.	N/A	Value range: 1 to 4049.	N/A
VRF	MPLS L3VPN where the users resides.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ServerName	Name of the portal server.	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A
LoginTime	Time when the user logged in	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
OnlineDuration	User online duration.	N/A	Non-negative integer. The unit is second.	N/A
FlowStats	Flow statistics for the user.	Data structure	Members include: • SendPktNum • SendByteNum • RecvPktNum • RecvByteNum	N/A
SendPktNum	Number of packets sent by the user.	N/A	Value range: 0 to $2^{64}-1$.	N/A
SendByteNum	Number of bytes sent by the user.	N/A	Value range: 0 to $2^{64}-1$.	N/A
RecvPktNum	Number of packets received by the user.	N/A	Value range: 0 to $2^{64}-1$.	N/A
RecvByteNum	Number of bytes received by the user.	N/A	Value range: 0 to $2^{64}-1$.	N/A
ObjectGroup	Users belong to the group of object.	N/A	String. Length: 1 to 31 characters.	N/A
InboundFlowRate	Inbound Real time rate.	N/A	Value range: 0 to $2^{64}-1$.	bytes per second
OutboundFlowRate	Outbound Real time rate.	N/A	Value range: 0 to $2^{64}-1$.	bytes per second
AccessSwitch	Whether the user can access the network.	N/A	Boolean: • false—OFF • true—ON	N/A

Portal/PortalServerStats

XML structure

```
<Portal>
  <PortalServerStats>
    <Name></Name>
    <InvalidPkts></InvalidPkts>
    <ReqChallenge>
      <ReqChallengeTotal></ReqChallengeTotal>
      <ReqChallengeDrop></ReqChallengeDrop>
      <ReqChallengeError></ReqChallengeError>
    </ReqChallenge>
    <AckChallenge>
      <AckChallengeTotal></AckChallengeTotal>
      <AckChallengeDrop></AckChallengeDrop>
      <AckChallengeError></AckChallengeError>
    </AckChallenge>
    <ReqAuth>
      <ReqAuthTotal></ReqAuthTotal>
      <ReqAuthDrop></ReqAuthDrop>
      <ReqAuthError></ReqAuthError>
    </ReqAuth>
    <AckAuth>
      <AckAuthTotal></AckAuthTotal>
      <AckAuthDrop></AckAuthDrop>
      <AckAuthError></AckAuthError>
    </AckAuth>
    <ReqLogout>
      <ReqLogoutTotal></ReqLogoutTotal>
      <ReqLogoutDrop></ReqLogoutDrop>
      <ReqLogoutError></ReqLogoutError>
    </ReqLogout>
    <AckLogout>
      <AckLogoutTotal></AckLogoutTotal>
      <AckLogoutDrop></AckLogoutDrop>
      <AckLogoutError></AckLogoutError>
    </AckLogout>
    <AffAckAuth>
      <AffAckAuthTotal></AffAckAuthTotal>
      <AffAckAuthDrop></AffAckAuthDrop>
      <AffAckAuthError></AffAckAuthError>
    </AffAckAuth>
    <NtfLogout>
      <NtfLogoutTotal></NtfLogoutTotal>
      <NtfLogoutDrop></NtfLogoutDrop>
      <NtfLogoutError></NtfLogoutError>
```

```

</NtfLogout>
<ReqInfo>
  <ReqInfoTotal></ReqInfoTotal>
  <ReqInfoDrop></ReqInfoDrop>
  <ReqInfoError></ReqInfoError>
</ReqInfo>
<AckInfo>
  <AckInfoTotal></AckInfoTotal>
  <AckInfoDrop></AckInfoDrop>
  <AckInfoError></AckInfoError>
</AckInfo>
<NtfUserDisCover>
  <NtfUserDisCoverTotal></NtfUserDisCoverTotal>
  <NtfUserDisCoverDrop></NtfUserDisCoverDrop>
  <NtfUserDisCoverError></NtfUserDisCoverError>
</NtfUserDisCover>
<NtfUserIpChange>
  <NtfUserIpChangeTotal></NtfUserIpChangeTotal>
  <NtfUserIpChangeDrop></NtfUserIpChangeDrop>
  <NtfUserIpChangeError></NtfUserIpChangeError>
</NtfUserIpChange>
<AffNtfUserIpChange>
  <AffNtfUserIpChangeTotal></AffNtfUserIpChangeTotal>
  <AffNtfUserIpChangeDrop></AffNtfUserIpChangeDrop>
  <AffNtfUserIpChangeError></AffNtfUserIpChangeError>
</AffNtfUserIpChange>
<AckNtfLogout>
  <AckNtfLogoutTotal></AckNtfLogoutTotal>
  <AckNtfLogoutDrop></AckNtfLogoutDrop>
  <AckNtfLogoutError></AckNtfLogoutError>
</AckNtfLogout>
<NtfHeartBeat>
  <NtfHeartBeatTotal></NtfHeartBeatTotal>
  <NtfHeartBeatDrop></NtfHeartBeatDrop>
  <NtfHeartBeatError></NtfHeartBeatError>
</NtfHeartBeat>
<NtfUserHeartBeat>
  <NtfUserHeartBeatTotal></NtfUserHeartBeatTotal>
  <NtfUserHeartBeatDrop></NtfUserHeartBeatDrop>
  <NtfUserHeartBeatError></NtfUserHeartBeatError>
</NtfUserHeartBeat>
<AckNtfUserHeartBeat>
  <AckNtfUserHeartBeatTotal></AckNtfUserHeartBeatTotal>
  <AckNtfUserHeartBeatDrop></AckNtfUserHeartBeatDrop>
  <AckNtfUserHeartBeatError></AckNtfUserHeartBeatError>
</AckNtfUserHeartBeat>
<NtfChallenge>
  <NtfChallengeTotal></NtfChallengeTotal>

```

```

    <NtfChallengeDrop></NtfChallengeDrop>
    <NtfChallengeError></NtfChallengeError>
</NtfChallenge>
<NtfUserNotify>
    <NtfUserNotifyTotal></NtfUserNotifyTotal>
    <NtfUserNotifyDrop></NtfUserNotifyDrop>
    <NtfUserNotifyError></NtfUserNotifyError>
</NtfUserNotify>
<AffNtfUserNotify>
    <AffNtfUserNotifyTotal></AffNtfUserNotifyTotal>
    <AffNtfUserNotifyDrop></AffNtfUserNotifyDrop>
    <AffNtfUserNotifyError></AffNtfUserNotifyError>
</AffNtfUserNotify>
</PortalServerStats>
</Portal>

```

Table description

Item	Description
Table description	Portal Server packets statistics table
Table type	Multi-instance table
Feature name	Portal
Table name	PortalServerStats
Row name	Name
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the portal server	Index	String. Length: 1 to 32 characters.	N/A
InvalidPkts	Number of invalid packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqChallenge	Challenge request packet the portal server sent to the device	Data structure		N/A
ReqChallengeTotal	Total number of challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqChallengeDrop	Number of dropped challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReqChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckChallenge	Challenge acknowledgment packet the device sent to the portal server	N/A		N/A
AckChallengeTotal	Total number of challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckChallengeDrop	Number of dropped challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckChallengeError	Number of erroneous challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuth	Authentication request packet the portal server sent to the device	N/A		N/A
ReqAuthTotal	Total number of Authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuthDrop	Number of dropped authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuthError	Number of erroneous authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuth	Authentication acknowledgment packet the device sent to the portal server	N/A		N/A
AckAuthTotal	Total number of authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckAuthDrop	Number of dropped authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuthError	Number of erroneous authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogout	Logout request packet the portal server sent to the device.	N/A		N/A
ReqLogoutTotal	Total number of logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogoutDrop	Number of dropped logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogoutError	Number of erroneous logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogout	Logout acknowledgment packet the device sent to the portal server	N/A		N/A
AckLogoutTotal	Total number of logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogoutDrop	Number of dropped logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogoutError	Number of erroneous logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuth	Affirmation packet the portal server sent to the device after receiving an authentication acknowledgment packet.	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AffAckAuthTotal	Total number of affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuthDrop	Number of dropped affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuthError	Number of erroneous affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogout	Forced logout notification packet the device sent to the portal server	N/A		N/A
NtfLogoutTotal	Total number of forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogoutDrop	Number of dropped forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogoutError	Number of erroneous forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfo	Information request packet	N/A		N/A
ReqInfoTotal	Total number of information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfoDrop	Number of dropped information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfoError	Number of erroneous information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckInfo	Information acknowledgment packet	N/A		N/A
AckInfoTotal	Total number of information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckInfoDrop	Number of dropped information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckInfoError	Number of erroneous information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserDisCover	User discovery notification packet the portal server sent to the device	N/A		N/A
NtfUserDisCoverTotal	Total number of user discovery notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserDisCoverDrop	Number of dropped user discovery notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserDisCoverError	Number of erroneous user discovery notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserIpChange	User IP change notification packet the device sent to the portal server	N/A		N/A
NtfUserIpChangeTotal	Total number of user IP change notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserIpChangeDrop	Number of dropped user IP change notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserIpChangeError	Number of erroneous user IP change notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AffNtfUserIpChange	User IP change success notification packet the portal server sent to the device	N/A		N/A
AffNtfUserIpChangeTotal	Total number of user IP change success notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserIpChangeDrop	Number of dropped user IP change success notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserIpChangeError	Number of erroneous user IP change success notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogout	Forced logout acknowledgment packet the portal server sent to the device	N/A		N/A
AckNtfLogoutTotal	Total number of forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogoutDrop	Number of dropped forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogoutError	Number of erroneous forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfHeartBeat	Server heartbeat packet the portal server periodically sent to the device	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NtfHeartBeatTotal	Total number of server heartbeat packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfHeartBeatDrop	Number of dropped server heartbeat packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfHeartBeatError	Number of erroneous server heartbeat packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserHeartBeat	User synchronization packet the portal server sent to the device	N/A		N/A
NtfUserHeartBeatTotal	Total number of user synchronization packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserHeartBeatDrop	Number of dropped user synchronization packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserHeartBeatError	Number of erroneous user synchronization packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfUserHeartBeat	User synchronization acknowledgment packet the device sent to the portal server	N/A		N/A
AckNtfUserHeartBeatTotal	Total number of user synchronization acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfUserHeartBeatDrop	Number of dropped user synchronization acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckNtfUserHeartBeatError	Number of erroneous user synchronization acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfChallenge	Challenge request packet the device sent to the portal server	N/A		N/A
NtfChallengeTotal	Total number of challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfChallengeDrop	Number of dropped challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserNotify	User information notification packet the device sent to the portal server	N/A		N/A
NtfUserNotifyTotal	Total number of user information notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserNotifyDrop	Number of dropped user information notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserNotifyError	Number of erroneous user information notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserNotify	NTF_USER_NOTIFY acknowledgment packet the portal server sent to the device	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AffNtfUserNotify Total	Total number of NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserNotify Drop	Number of dropped NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserNotify Error	Number of erroneous NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Portal/PortalProxyStats

XML structure

```

<Portal>
  <PortalProxyStats>
    <Status></Status>
    <InvalidPkts></InvalidPkts>
    <ReqInfo>
      <ReqInfoReceived></ReqInfoReceived>
      <ReqInfoDrop></ReqInfoDrop>
      <ReqInfoError></ReqInfoError>
    </ReqInfo>
    <AckInfo>
      <AckInfoReceived></AckInfoReceived>
      <AckInfoDrop></AckInfoDrop>
      <AckInfoError></AckInfoError>
    </AckInfo>
    <ReqChallenge>
      <ReqChallengeReceived><ReqChallengeReceived>
      <ReqChallengeDrop></ReqChallengeDrop>
      <ReqChallengeError></ReqChallengeError>
    </ReqChallenge>
    <AckChallenge>
      <AckChallengeReceived></AckChallengeReceived>
      <AckChallengeDrop></AckChallengeDrop>
      <AckChallengeError></AckChallengeError>
    </AckChallenge>
    <ReqAuth>
      <ReqAuthReceived></ReqAuthReceived>

```



```

    <ReqAuthDrop></ReqAuthDrop>
    <ReqAuthError></ReqAuthError>
</ReqAuth>
<AckAuth>
    <AckAuthReceived></AckAuthReceived>
    <AckAuthDrop></AckAuthDrop>
    <AckAuthError></AckAuthError>
</AckAuth>
<AffAckAuth>
    <AffAckAuthTotal></AffAckAuthTotal>
    <AffAckAuthDrop></AffAckAuthDrop>
    <AffAckAuthError></AffAckAuthError>
</AffAckAuth>
<ReqLogout>
    <ReqLogoutReceived></ReqLogoutReceived>
    <ReqLogoutDrop></ReqLogoutDrop>
    <ReqLogoutError></ReqLogoutError>
</ReqLogout>
<AckLogout>
    <AckLogoutReceived></AckLogoutReceived>
    <AckLogoutDrop></AckLogoutDrop>
    <AckLogoutError></AckLogoutError>
</AckLogout>
<NtfLogout>
    <NtfLogoutReceived></NtfLogoutReceived>
    <NtfLogoutDrop></NtfLogoutDrop>
    <NtfLogoutError></NtfLogoutError>
</NtfLogout>
<AckNtfLogout>
    <AckNtfLogoutReceived></AckNtfLogoutReceived>
    <AckNtfLogoutDrop></AckNtfLogoutDrop>
    <AckNtfLogoutError></AckNtfLogoutError>
</AckNtfLogout>
<ReqMacBind>
    <ReqMacBindReceived></ReqMacBindReceived>
    <ReqMacBindDrop></ReqMacBindDrop>
    <ReqMacBindError></ReqMacBindError>
</ReqMacBind>
<AckMacBind>
    <AckMacBindReceived></AckMacBindReceived>
    <AckMacBindDrop></AckMacBindDrop>
    <AckMacBindError></AckMacBindError>
</AckMacBind>
<NtfMacBindLogon>
    <NtfMacBindLogonReceived><NtfMacBindLogonReceived>
    <NtfMacBindLogonDrop></NtfMacBindLogonDrop>
    <NtfMacBindLogonError></NtfMacBindLogonError>
</NtfMacBindLogon>

```

```

<NtfMacBindLogout>
  <NtfMacBindLogoutReceived><NtfMacBindLogoutReceived>
  <NtfMacBindLogoutDrop></NtfMacBindLogoutDrop>
  <NtfMacBindLogoutError></NtfMacBindLogoutError>
</NtfMacBindLogout>
<AffMacBindLogout>
  <AffMacBindLogoutReceived><AffMacBindLogoutReceived>
  <AffMacBindLogoutDrop></AffMacBindLogoutDrop>
  <AffMacBindLogoutError></AffMacBindLogoutError>
</AffMacBindLogout>
</PortalProxyStats>
</Portal>

```

Table description

Item	Description
Table description	Portal proxy packet statistics table
Table type	Single-instance table
Feature name	Portal
Table name	PortalProxyStats
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Status of the portal proxy server	N/A	Boolean: 1—Enabled 2—Disabled	N/A
InvalidPkts	Number of Invalid packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfo	Information request packet	N/A		N/A
ReqInfoReceived	Number of received information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfoDrop	Number of dropped information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqInfoError	Number of erroneous information request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckInfo	Information acknowledgment packet	N/A		N/A
AckInfoReceived	Number of received information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckInfoDrop	Number of dropped information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckInfoError	Number of erroneous information acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqChallenge	Challenge request packet the portal server sent to the device	Data structure		N/A
ReqChallengeReceived	Number of received challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqChallengeDrop	Number of dropped challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqChallengeError	Number of erroneous challenge request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckChallenge	Challenge acknowledgment packet the device sent to the portal server	N/A		N/A
AckChallengeReceived	Number of received challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckChallengeDrop	Number of dropped challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckChallengeError	Number of erroneous challenge acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuth	Authentication request packet the portal server sent to the device	N/A		N/A
ReqAuthReceived	Number of received authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuthDrop	Number of dropped authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqAuthError	Number of erroneous authentication request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuth	Authentication acknowledgment packet the device sent to the portal server	N/A		N/A
AckAuthReceived	Number of received authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuthDrop	Number of dropped authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuthError	Number of erroneous authentication acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuth	Affirmation packet the portal server sent to the device after receiving an authentication acknowledgment packet	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AffAckAuthReceived	Number of received affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuthDrop	Number of dropped affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffAckAuthError	Number of erroneous affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogout	Logout request packet the portal server sent to the device	N/A		N/A
ReqLogoutReceived	Number of received logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogoutDrop	Number of dropped logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqLogoutError	Number of erroneous logout request packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogout	Logout acknowledgment packet the device sent to the portal server	N/A		N/A
AckLogoutReceived	Number of received logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogoutDrop	Number of dropped logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckLogoutError	Number of erroneous logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogout	Forced logout notification packet the device sent to the portal server	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NtfLogoutReceived	Number of received forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogoutDrop	Number of dropped forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfLogoutError	Number of erroneous forced logout notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogout	Forced logout acknowledgment packet from the portal server	N/A		N/A
AckNtfLogoutReceived	Number of received forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogoutDrop	Number of dropped forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckNtfLogoutError	Number of erroneous forced logout acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqMacBind	MAC binding query the device sent to the MAC binding server	N/A		N/A
ReqMacBindReceived	Number of received MAC binding queries	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqMacBindDrop	Number of dropped MAC binding queries	N/A	Value range: 0 to $2^{64}-1$.	N/A
ReqMacBindError	Number of erroneous MAC binding queries	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AckMacBind	MAC binding query acknowledgment packet the MAC binding server sent to the device	N/A		N/A
AckMacBindReceived	Number of received MAC binding query acknowledgment packet	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckMacBindDrop	Number of dropped MAC binding query acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckMacBindError	Number of erroneous MAC binding query acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfMacBindLogon	User logon notification packet the device sent to the MAC binding server	N/A		N/A
NtfMacBindLogonReceived	Number of received user logon notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfMacBindLogonDrop	Number of dropped user logon notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfMacBindLogonError	Number of erroneous user logon notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfMacBindLogout	User logoff notification packet the device sent to the MAC binding server	N/A		N/A
NtfMacBindLogoutReceived	Number of received user logoff notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NtfMacBindLogoutDrop	Number of dropped user logoff notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfMacBindLogoutError	Number of erroneous user logoff notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffMacBindLogout	Forced logout affirmation packet sent by Mac-Trigger server	N/A		N/A
AffMacBindLogoutReceived	Number of received forced logout affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffMacBindLogoutDrop	Number of dropped forced logout affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffMacBindLogoutError	Number of erroneous forced logout affirmation packets	N/A	Value range: 0 to $2^{64}-1$.	N/A

Portal/IPv4StaticRule

XML structure

```

<Portal>
  <IPv4StaticRules>
    <IPv4StaticRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <Protocol></Protocol>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4AddrMask></SrcIPv4AddrMask>
      </SrcIPv4>
      <SrcPort>
        <SrcPortValue1></SrcPortValue1>
      </SrcPort>
      <SrcIfIndex></SrcIfIndex>
      <SrcVlan></SrcVlan>
    </IPv4StaticRule>
  </IPv4StaticRules>
</Portal>

```



```

<SrcMacAddr></SrcMacAddr>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4AddrMask></DstIPv4AddrMask>
</DstIPv4>
<DstPort>
  <DstPortValue1></DstPortValue1>
</DstPort>
</IPv4StaticRule>
</IPv4StaticRules>
</Portal>

```

Table description

Item	Description
Table description	Portal IPV4 static-rule table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv4StaticRules
Row name	IPv4StaticRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Action	Action to be taken on packets matching the rule	N/A	Enumeration: 1—Permit 2—Redirect 3—Deny	N/A
Status	Status of the rule	N/A	Enumeration: 1—Active 2—Deactive 3—N/A	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: 1—TCP 2—UDP 3—Any	N/A
SrcIPv4	Source IPv4 address information	Data structure	Members include: - SrcIPv4Addr - SrcIPv4AddrMask	N/A
SrcIPv4Addr	Source IPv4 address	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv4AddrMask	Subnet mask length of the source IPv4 address	N/A	Non-negative integer. Value range: 1 to 32.	N/A
SrcPort		Data Structure	Members include: SrcPortValue1	N/A
SrcPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
SrcIfIndex	Source interface	N/A	Layer2 interface index. Non-negative integer.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	N/A
DstIPv4		Data structure	Members include: - DstIPv4Addr - DstIPv4AddrMask	N/A
DstIPv4Addr	Destination IPv4 address		IPv4: String, dotted decimal notation.	N/A
DstIPv4AddrMask	Subnet mask length of the destination IPv4 mask	N/A	Non-negative integer. Value range: 1 to 32.	N/A
DstPort		Data structure	Members include: DstPortValue1	N/A
DstPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A

Portal/IPv6StaticRule

XML structure

```

<Portal>
  <IPv6StaticRules>
    <IPv6StaticRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <Protocol></Protocol>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
        <SrcIPv6AddrPrefix></SrcIPv6AddrPrefix>
      </SrcIPv6>
    </IPv6StaticRule>
  </IPv6StaticRules>
</Portal>

```

```

<SrcPort>
  <SrcPortValue1></SrcPortValue1>
</SrcPort>
  <SrcIfIndex></SrcIfIndex>
  <SrcVlan></SrcVlan>
  <SrcMacAddr></SrcMacAddr>
<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6AddrPrefix></DstIPv6AddrPrefix>
</DstIPv6>
<DstPort>
  <DstPortValue1></DstPortValue1>
</DstPort>
</IPv6StaticRule>
</IPv6StaticRules>
</Portal>

```

Table description

Item	Description
Table description	Portal IPV6 static-rule table
Table type	Multi-instance table
Feature name	Portal
Table name	IPv6StaticRules
Row name	IPv6StaticRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer	N/A
Action	Action to be taken on packets matching the rule	N/A	Enumeration: 1—Permit 2—Redirect 3—Deny	N/A
Status	Status of the rule	N/A	Enumeration: 1—Active 2—Deactive 3—N/A	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: 1—TCP 2—UDP 3—Any	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIPv6	Source IPv6 address information	Data structure	Members include: - SrcIPv6Addr - SrcIPv6AddrPrefix	N/A
SrcIPv6Addr	Source IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SrcIPv6AddrPrefix	Prefix length of the source IPv6 address	N/A	Non-negative integer. Value range: 1 to 128.	N/A
SrcPort		Data Structure	Members include: SrcPortValue1	N/A
SrcPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A
SrcIfIndex	Source interface	N/A	Layer2 interface index. Non-negative integer.	N/A
SrcVlan	Source VLAN	N/A	Non-negative integer. Value range: 1 to 4094.	N/A
SrcMacAddr	Source MAC address	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	N/A
DstIPv6		Data structure	Members include: - DstIPv6Addr - DstIPv6AddrPrefix	N/A
DstIPv6Addr	Destination IPv6 address	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
DstIPv6AddrPrefix	Prefix length of the destination IPv6 address	N/A	Non-negative integer. Value range: 1 to 128.	N/A
DstPort		Data structure	Members include: DstPortValue1	N/A
DstPortValue1	Source port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A

Portal/UserRule

XML structure

```

<Portal>
  <UserRules>
    <UserRule>
      <IfIndex></IfIndex>
      <Action></Action>
      <Status></Status>
      <IPAddr></IPAddr>
    </UserRule>
  </UserRules>
</Portal>

```

```

    <L2IfIndex></L2IfIndex>
    <Vlan></Vlan>
    <MacAddr ></MacAddr>
    <AuthorationInfo>
        <AcINumber></AcINumber>
        <Userprofile></Userprofile>
    </AuthorationInfo>
</UserRule>
</UserRules>
</Portal>

```

Table description

Item	Description
Table description	Portal user-rule table
Table type	Multi-instance table
Feature name	Portal
Table name	UserRules
Row name	UserRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Non-negative integer.	N/A
Action	Action to be taken on packets matching the rule	N/A	Boolean: 1—Permit	N/A
Status	Status of the rule	N/A	Enumeration: 1—Active 2—Deactive 3—N/A	N/A
IPAddr	IP address of the user	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPAddr
L2IfIndex	Layer 2 interface	N/A	Non-negative integer.	L2IfIndex
Vlan	VLAN where the user resides	N/A	Non-negative integer. Value range: 1 to 4094.	Vlan

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddr	MAC address of the user	N/A	MAC address in the HH-HH-HH-HH-HH-HH format. Example: 00-0c-af-e3-5d-c0.	MacAddr
AuthorationInfo	Authorization information	Data structure		AuthorationInfo
AcINumber	Authorized ACL number	N/A	Non-negative integer.	AcINumber
Userprofile	Authorized user profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	Userprofile

Portal/LocalWebServers

XML structure

```

<Portal>
  <LocalWebServers>
    <LocalWebServer>
      <Type></Type>
      <SSLServerPolicy></SSLServerPolicy>
      <DefLogonPage></DefLogonPage>
      <TCPPort></TCPPort>
    </LocalWebServer>
  </LocalWebServers>
</Portal>

```

Table description

Item	Description
Table description	Portal local WebServer information table
Table type	Multi-instance table
Feature name	Portal
Table name	LocalWebServers
Row name	PortalServer
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP 1—HTTPS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SSLServerPolicy	SSL server policy name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DefLogonPage	Default authentication page file	N/A	String, case-sensitive and contains letters, digits, dots (.), and underscores (_). Length: 1 to 91 characters.	N/A
TCPPort	TCP port number	N/A	Non-negative integer. Value range: 1 to 65535.	N/A

Portal/SelfDefSsidPage

This table contains information about the self-defined SSID page file.

XML structure

```

<Portal>
  <SelfDefSsidPages>
    <SelfDefSsidPage>
      <Type></Type>
      <ssid></ssid>
      <LogonPageFile></LogonPageFile>
    </SelfDefSsidPage>
  </SelfDefSsidPages>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefSsidPages
Table type	Multi-instance table
Row name	SelfDefSsidPage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local portal Web server.
ssid	SSID name	Index	String, case sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.

Column name	Column description	Column type	Data type and restrictions	Remarks
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefDevTypePage

This table contains information about the self-defined device type page file.

XML structure

```

<Portal>
  <SelfDefDevTypePages>
    <SelfDefDevTypePage>
      <Type></Type>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefDevTypePage>
  </SelfDefDevTypePages>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefDevTypePages
Table type	Multi-instance table
Row name	SelfDefDevTypePage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local portal Web server.
DeviceType	Device type	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/SelfDefPage

This table contains information about the self-defined page file.

XML structure

```
<Portal>
  <SelfDefPages>
    <SelfDefPage>
      <Type></Type>
      <ssid></ssid>
      <DeviceType></DeviceType>
      <LogonPageFile></LogonPageFile>
    </SelfDefPage>
  </SelfDefPages>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	SelfDefPages
Table type	Multi-instance table
Row name	SelfDefPage
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Protocol type	Index	Enumeration: 0—HTTP. 1—HTTPS.	This column configures the protocol type for the local portal Web server.
ssid	SSID name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
DeviceType	Device type	Index	String, case-sensitive. Length: 1 to 127 characters.	This column assigns a specific device type to the designated page file.
LogonPageFile	Authentication page file.	N/A	String, including letters, numbers, and underscores (_). Length: 1 to 91 characters.	N/A

Portal/ExtendAuthServers

This table contains information about portal extended authentication servers.

XML structure

```
<Portal>
  <ExtendAuthServers>
    <ExtendAuthServer>
      <Type></Type>
      <AuthUrl></AuthUrl>
      <AppId></AppId>
      <AppKey></AppKey>
      <RedirectUrl></RedirectUrl>
      <MailProtocol></MailProtocol>
      <MailDomain>
        <MailDomainName></MailDomainName>
      </MailDomain>
    </ExtendAuthServer>
  </ExtendAuthServers>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ExtendAuthServers
Table type	Multi-instance table
Row name	ExtendAuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Extended authentication service type	Index	Enumeration: 0—QQ. 1—Mail.	N/A
AuthUrl	Authentication URL	N/A	String. Length: 1 to 256 characters. Default: https://graph.qq.com (when the Type field is specified as 0).	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppId	App ID which supports for extended authentication	N/A	String. Length: 1 to 32 characters.	The default value is the App ID of the Lvzhou application in the QQ open platform.
AppKey	The key of App ID	N/A	String. Length: 1 to 64 characters.	App key needs to be kept confidential and not returned to users.
RedirectUrl	Authentication redirect URL	N/A	String. Length: 1 to 256 characters.	The default value is the callback address of the Lvzhou application in the QQ open platform.
MailProtocol	Mail authentication protocol type	N/A	Enumeration: 1—POP3. 2—IMAP. 3—POP3 and IMAP.	N/A
MailDomain	Maildomain	Data structure	Members include: MailDomainName	This column takes effect only when the type field is specified as 1. MailDomainName must be set. You can specify 1 to 16 domain names.
MailDomainName	Mail domain name	N/A	String. Length: 1 to 255 characters.	The value of the column must be the Email domain format. For example: @qq.com

Portal/HistoryOnlineUserNums

This table contains the statistics on the number of historical online users.

XML structure

```

<Portal>
  <HistoryOnlineUserNums>
    <HistoryOnlineUserNum>
      <Interval></Interval>
      <TimeStamp></TimeStamp>
      <Num></Num>
    </HistoryOnlineUserNum>
  </HistoryOnlineUserNums>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	HistoryOnlineUserNums

Item	Description
Table type	Multi-instance table
Row name	HistroyOnlineUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Time interval	Index	Enumeration: 0–Hour 1–Day	N/A
TimeStamp	Recording time.	Index	DateTime.Format: YYYY-MM-DDTHH:MM:SS.	N/A
Num	Online user number.	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/CurrentOnlineUserNums

This table shows the number of the current online users.

XML structure

```

<Portal>
  <CurrentOnlineUserNums>
    <CurrentOnlineUserNum>
      <Num></Num>
    </CurrentOnlineUserNum>
  </CurrentOnlineUserNums>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	CurrentOnlineUserNums
Table type	Single-instance table
Row name	CurrentOnlineUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Num	Online user number	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/ObjectGroupStatistics

This table shows the number of online users per object group.

XML structure

```
<Portal>
  <ObjectGroupStatistics>
    <ObjectGroup>
      <GroupName></GroupName>
      <OnlineUserNum></OnlineUserNum>
    </ObjectGroup>
  </ObjectGroupStatistics>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ObjectGroupStatistics
Table type	Multi-instance table
Row name	ObjectGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of group.	Index	String. Length: 1 to 31 characters.	N/A
OnlineUserNum	Online user num.	N/A	Value range: 0 to $2^{32} - 1$.	N/A

Portal/MacServer

This table contains information about portal mac trigger servers.

XML structure

```
<Portal>
  <MacTriggerSevers>
    <MacTriggerServer>
      <Name></Name>
      <IPAddressInfo>
        <IPAddress></IPAddress>
        <VRF></VRF>
        <Key></Key>
      </IPAddressInfo>
      <Threshold></Threshold>
      <NasType></NasType>
      <MacSvrPort></MacSvrPort>
      <Detect>
        <MacSvrRetries></MacSvrRetries>
        <MacSvrRetryInterval></MacSvrRetryInterval>
      </Detect>
      <MacServerType></MacServerType>
      <Version></Version>
      <MacSvrAuthTimeOut></MacSvrAuthTimeOut>
      <AgingTime></AgingTime>
      <LocalBindingEnable></LocalBindingEnable>
      <LocalBindingAgingTime></LocalBindingAgingTime>
      <CloudBindingEnable></CloudBindingEnable>
    </MacTriggerServer>
  </MacTriggerServers>
</portal>
```

Table description

Item	Description
Feature name	Portal
Table name	MacTriggerServers
Table type	Multi-instance table
Row name	MacTriggerServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Portal mac-trigger server name	Index	String, case-sensitive. Length: 1 to 32 characters.	N/A
IPAddressInfo	Portal mac-trigger server address	Data structure	Members include: IPAddress VRF	N/A
IPAddress	IP address of the portal mac-trigger server	N/A	IPv4: String, dotted decimal notation.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	If the portal mac-trigger server is on the public network, the length of characters is 0.
Key	Shared secret	N/A	String, case-sensitive. Length: 1 to 64 characters.	The key is used for communication between the portal mac-trigger server and the device. It supports only plaintext.
Threshold	the threshold for MAC-triggered authentication	N/A	Unsigned integer. Value range: 0 to 10240000	The default free-traffic threshold is 0 bytes.
NasType	NAS-Port-Type value	N/A	Unsigned integer. Value range: 1 to 255	The default NAS-Port-Type value carried in RADIUS requests is 0.
MacSvrPort	UDP port number	N/A	Unsigned integer. Value range: 1 to 65534	The default MAC binding server listens for MAC binding query packets on UDP port 50100.
Detect	Portal Mac-trigger server detection	Data structure	Members include: Retry Interval	N/A
MacSvrRetries	Maximum number of portal Mac-trigger server detection attempts	N/A	Unsigned integer. Value range: 1~10	The default maximum number of query attempts is 3.
MacSvrRetryInterval	Detection interval	N/A	Unsigned integer. Value range:1~60	The default maximum number of query interval is 1 second.
MacServerType	a MAC binding server type	N/A	Boolean: 0.imc 1.cmcc	The default type of a MAC binding server is IMC.
Version	Version number	N/A	Unsigned integer. Value range:1~3	The default version of the portal protocol is 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
MacSvrAuthTimeOut	Set the timeout time the device waits for portal authentication to complete	N/A	Unsigned integer. Value range:1~15	The default portal authentication timeout time is 3 minutes.
AgingTime	Set the aging time for MAC-trigger entries	N/A	Unsigned integer. Value range:60~7200	The default aging time for MAC-trigger entries is 300 seconds.
LocalBindingEnable	enable portal MAC-Trigger local-binding	N/A	Boolean: • true—Yes false—No	N/A
LocalBindingAgingTime	the aging time for MAC-trigger local-binding entry	N/A	Unsigned integer. Value range:1~2160	N/A
CloudBindingEnable	Enable portal MAC-Trigger cloud binding	N/A	Boolean: • true—Yes false—No	N/A

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PRIMAP

PRIMAP/MapTables

This table contains information about priority mapping tables.

XML structure

```
<PRIMAP>
  <MapTables>
    <MapTable>
      <Source></Source>
      <Target></Target>
      <Color></Color>
      <Direction></Direction>
      <Import></Import>
      <Export></Export>
    </MapTable>
  </MapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTables
Table type	Multi-instance table
Row name	MapTable
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Source	The source type of priority.	Index	Enumeration: 1—dot11e 2—dot1p 3—dscp 4—exp 5—IP precedence 6—Local precedence 7—User priority	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Target	The target type of priority.	Index	Enumeration: 1—dot11e 2—dot1p 3—Drop priority 4—dscp 5—exp 6—Forwarding-class priority 7—Local precedence 8—RPR priority 9—User priority	N/A
Color	The color of priority mapping table.	Index	Enumeration: 0—Uncolored. 1—Green. 2—Yellow. 3—Red.	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: 0—Inbound. 1—Outbound. 2—Both.	N/A
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2

PRIMAP/PortPriority

This table contains information about port priority.

XML structure

```
<PRIMAP>
  <PortPriority>
    <Port>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <Dscp></Dscp>
      <Dot1p></Dot1p>
      <Exp></Exp>
      <DropPriority></DropPriority>
      <LocalPrecedence></LocalPrecedence>
    </Port>
  </PortPriority>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortPriority
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Priority	Port default priority.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 0.
Dscp	DSCP.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Dot1p	Dot1p.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Exp	MPLS EXP.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DropPriority	Drop priority.	N/A	Unsigned integer.	When this priority is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 2.	supported, the default value is 0.
LocalPrecedence	Local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 2.

PRIMAP/PortTrustMode

This table contains information about port priority trust mode.

XML structure

```

<PRIMAP>
  <PortTrustMode>
    <Port>
      <IfIndex></IfIndex>
      <TrustMode></TrustMode>
      <Override></Override>
    </Port>
  </PortTrustMode>
</PRIMAP>

```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortTrustMode
Table type	Multi-instance table
Row name	Port
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
TrustMode	Port priority trust mode.	N/A	Enumeration: • 1 —Untrust.	Required. The default priority trust

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—Dot1p. 3—DSCP. 4—EXP. 5—IP precedence. 6—Dot11e. 7—Auto.	mode on an interface varies by device.
Override	Whether overwrite the original priority carried in the packet	N/A	Boolean: false—Do not overwrite the priority (default). true—Overwrite the priority.	Required. Both TrustMode and Override are specified, or both are not specified. If there is no TrustMode specified, the default value of Override is false.

PRIMAP/GlobalTrustMode

This table contains information about global priority trust mode.

Vxlan mode is supported only.

XML structure

```

<PRIMAP>
  <GlobalTrustMode>
    <TunnelDscp></TunnelDscp>
  </GlobalTrustMode>
</PRIMAP>

```

Table description

Item	Description
Feature name	PRIMAP
Table name	GlobalTrustMode
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDscp	Global priority trust mode specifies the	N/A	Boolean: false—Trust the inner DSCP value in tunnel	Vxlan mode is supported only

Column name	Column description	Column type	Data type and restrictions	Remarks
	priority mapping for tunnel packets.		packets (default). • true—Trust the DSCP value in tunnel encapsulation.	

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PRIMAP

PRIMAP/MapTables

This table contains information about priority mapping tables.

XML structure

```
<PRIMAP>
  <MapTables>
    <MapTable>
      <Source></Source>
      <Target></Target>
      <Color></Color>
      <Direction></Direction>
      <Import></Import>
      <Export></Export>
    </MapTable>
  </MapTables>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTables
Table type	Multi-instance table
Row name	MapTable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Source	The source type of priority.	Index	Enumeration: 1—dot11e 2—dot1p 3—dscp 4—exp 5—IP precedence 6—Local precedence 7—User priority	N/A
Target	The target type of priority.	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—dot11e 2—dot1p 3—Drop priority 4—dscp 5—exp 6—Forwarding-class priority 7—Local precedence 8—RPR priority 9—User priority	
Color	The color of priority mapping table.	Index	Enumeration: 0—Uncolored. 1—Green. 2—Yellow. 3—Red.	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: 0—Inbound. 1—Outbound. 2—Both.	N/A
Import	Input value of priority mapping table.	Index	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 IP Precedence: 0 to 7 up: 0 to 7 dot11e: 0 to 7
Export	Output value of priority mapping table.	N/A	Unsigned integer. Value range: 0 to 63.	Different priority has different range of export value. dot1p: 0 to 7 dscp: 0 to 63 lp: 0 to 7 exp: 0 to 7 up: 0 to 7 dot11e: 0 to 7 fc: 0 to 7 rpr: 0 to 2 drop priority: 0 to 2

PRIMAP/PortPriority

This table contains information about port priority.

XML structure

```
<PRIMAP>
  <PortPriority>
    <Port>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <Dscp></Dscp>
      <Dot1p></Dot1p>
      <Exp></Exp>
      <DropPriority></DropPriority>
      <LocalPrecedence></LocalPrecedence>
    </Port>
  </PortPriority>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortPriority
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
Priority	Port default priority.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 0.
Dscp	DSCP.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Dot1p	Dot1p.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Exp	MPLS EXP.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DropPriority	Drop priority.	N/A	Unsigned integer. Value range: 0 to 2.	When this priority is supported, the default value is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalPrecedence	Local precedence.	N/A	Unsigned integer. Value range: 0 to 7.	When this priority is supported, the default value is 2.

PRIMAP/PortTrustMode

This table contains information about port priority trust mode.

XML structure

```

<PRIMAP>
  <PortTrustMode>
    <Port>
      <IfIndex></IfIndex>
      <TrustMode></TrustMode>
      <Override></Override>
    </Port>
  </PortTrustMode>
</PRIMAP>

```

Table description

Item	Description
Feature name	PRIMAP
Table name	PortTrustMode
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product.
TrustMode	Port priority trust mode.	N/A	Enumeration: 1—Untrust. 2—Dot1p. 3—DSCP. 4—EXP.	The default priority trust mode on an interface varies by device.

Column name	Column description	Column type	Data type and restrictions	Remarks
			5—IP precedence. 6—Dot11e. 7—Auto.	
Override	Whether overwrite the original priority carried in the packet	N/A	Boolean: false—Do not overwrite the priority (default). true—Overwrite the priority.	N/A

PRIMAP/GlobalTrustMode

This table contains information about global priority trust mode.

Vxlan mode is supported only.

XML structure

```
<PRIMAP>
  <GlobalTrustMode>
    <TunnelDscp></TunnelDscp>
  </GlobalTrustMode>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	GlobalTrustMode
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDscp	Global priority trust mode specifies the priority mapping for tunnel packets.	N/A	Boolean: false—Trust the inner DSCP value in tunnel packets (default). true—Trust the DSCP value in tunnel encapsulation.	Vxlan mode is supported only

PRIMAP/MapTablesCapability

This table contains information about priority mapping table capabilities.

XML structure

```
<PRIMAP>
  <MapTablesCapability>
    <Capability>
      <MapTable></MapTable>
      <MaxExportValue></MaxExportValue>
    </Capability>
  </MapTablesCapability>
</PRIMAP>
```

Table description

Item	Description
Feature name	PRIMAP
Table name	MapTablesCapability
Table type	Multi-instance table
Row name	Capability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MapTable	Made up of "map from" priority type and "map to" priority type.	Index	String: • dot1p-lp • dot1p-dp • exp-lp • dscp-lp • exp-dp • dscp-dp • dscp-dot1p • dot1p-dscp • dscp-dscp • dscp-exp • exp-dscp • exp-dot1p • exp-exp • lp-dot1p • dot1p-rpr • dscp-rpr • exp-rpr	Different products support different map tables.

Column name	Column description	Column type	Data type and restrictions	Remarks
			• ippre-rpr • up-dot1p • up-dscp • up-exp • up-dp • up-lp • up-rpr • up-fc • lp-dscp • dot11e-lp • lp-dot11e • lp-lp • dot1p-exp • lp-exp • lp-dp • up-up • dot1p-dot1p	
MaxExportValue	The max export value of the map table.	N/A	Unsigned integer.	N/A

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Radius

Radius/AuthServerState

RADIUS authentication server status table.

XML structure

```
<Radius>
  <AuthServerState>
    <VRF></VRF>
    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <State></State>
  </AuthServerState>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServerState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS authentication server address.	Index NULL is allowed.	Enumeration: • 0—IPv4. • 1—IPv6. • 2—FQDN.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	RADIUS authentication server.	Index NULL is allowed.	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS authentication server.	Index NULL is allowed.	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
State	Status of the RADIUS authentication server.	N/A	Enumeration: 0—Active 1—Block	Default: 0.

Radius/AcctServerState

RADIUS accounting server status table.

XML structure

```

<Radius>
  <AcctServerState>
    <VRF></VRF>
    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <State></State>
  </AcctServerState>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AcctServerState
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name.	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS accounting server address.	Index NULL is allowed.	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS accounting server.	Index NULL is allowed.	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS accounting server.	Index NULL is allowed.	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
State	Status of the RADIUS accounting server.	N/A	Enumeration: 0—Active 1—Block	Default: 0.

Radius/ClearAllStatistic

Clear all RADIUS statistics.

XML structure

```
<Radius>
  <CleanAllStatistic>
    <Clear></Clear>
  </CleanAllStatistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all RADIUS statistics.	N/A	This column must be empty.

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Radius

Radius/Trap

SNMP notification information table of RADIUS.

XML structure

```
<Radius>
  <Trap>
    <AuthErrThreshold></AuthErrThreshold>
    <Switchs>
      <AuthServerDown></AuthServerDown>
      <AuthServerUp></AuthServerUp>
      <AcctServerDown></AcctServerDown>
      <AcctServerUp></AcctServerUp>
      <AuthErrReachThreshold></AuthErrReachThreshold>
    </Switchs>
  </Trap>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthErrThresh hold	The threshold for authentication failure notification	N/A	Unsigned integer. Value range: 1 to 100.	Default threshold: 30. An authentication failure notification will be sent if the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
				This column is not supported to configure at present.
Switchs	Whether to enable each type of notification	Data structure	Members include: - AuthServerDown. - AuthServerUp. - AcctServerDown. - AcctServerUp. - AuthErrReachThreshold.	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: - true. - false.	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: - true. - false.	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: - true. - false.	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: - true. - false.	Default: false.
AuthErrReachThreshold	Whether to send a notification when the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold	N/A	Boolean: - true. - false.	Default: false.

Radius/Dscp

The DSCP priority of RADIUS packets.

XML structure

```
<Radius>
  <Dscp>
    <Ipv4></Ipv4>
```

```

    <Ipv6></Ipv6>
  </Dscp>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Radius/Client/GlobalNasIps

RADIUS global NAS IP information table.

XML structure

```

<Radius>
  <Client>
    <GlobalNasIps>
      <GlobalNasIp>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </GlobalNasIp>
    </GlobalNasIps>
  </Client>
</Radius>

```


Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	A maximum of 16 global NAS IP addresses are supported.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the source IP address for outgoing RADIUS packets	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
IpAddress	Source IP address for outgoing RADIUS packets	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents an IPv4 address. For example, 1.0.0.1. If the IpType value is 1, this column represents an IPv6 address. For example, 2001:12::1:2.

Radius/Client/ServerTestProfiles

The test profile table for RADIUS server status detection.

XML structure

```
<Radius>
  <Client>
    <ServerTestProfiles>
      <ServerTestProfile>
        <ProfileName></ProfileName>
        <UserName></UserName>
        <Interval></Interval>
      </ServerTestProfile>
    </ServerTestProfiles>
  </Client>
```

</Radius>

Table description

Item	Description
Feature name	Radius
Table name	ServerTestProfiles
Table type	Multi-instance table
Row name	ServerTestProfile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the RADIUS test profile	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
UserName	User name for the RADIUS test profile	N/A	String, case-sensitive. Length: 1 to 253 characters.	This column is required.
Interval	Period for sending test packets	N/A	Unsigned integer. Value range: 1 to 3600, in minutes.	Default: 60 minutes.

Radius/Client/Schemes

RADIUS scheme table.

XML structure

```
<Radius>
  <Client>
    <Schemes>
      <Scheme>
        <SchemeName></SchemeName>
        <TimeUnitage></TimeUnitage>
        <RealAcctInterval></RealAcctInterval>
        <TimeOut></TimeOut>
        <QuietTime></QuietTime>
        <PktRetryTimes></PktRetryTimes>
        <RealAcctRetryTimes></RealAcctRetryTimes>
        <UserNameFormat></UserNameFormat>
        <BytesUnit></BytesUnit>
```

```

    <PacketsUnit></PacketsUnit>
    <NasIpv4Address></NasIpv4Address>
    <NasIpv6Address></NasIpv6Address>
    <AuthenKey></AuthenKey>
    <AcctKey></AcctKey>
    <VRF></VRF>
    <ClassType></ClassType>
    <AcctOnEnable></AcctOnEnable>
    <AcctOnSendInterval></AcctOnSendInterval>
    <AcctOnSendTimes></AcctOnSendTimes>
    <ChangePassword></ChangePassword>
  </Scheme>
</Schemes>
</Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The device supports a maximum of 16 RADIUS schemes.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
TimeUnitage	Measurement unit of the interval for sending realtime accounting packets	N/A	Enumeration: 0—Minute. 1—Second.	Default: 0.
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 71582.	Default: 12 minutes. Zero indicates that the device does not send realtime accounting packets to the RADIUS accounting server. The unit of the realtime accounting interval is set through the

Column name	Column description	Column type	Data type and restrictions	Remarks
				TimeUnitage column. If the TimeUnitage column is not set, the unit is minute. The device converts the interval value to a value in seconds even if the configured measurement unit is minute. After the realtime accounting interval is set, only deleting the TimeUnitage column does not affect the interval.
TimeOut	RADIUS server response timeout period	N/A	Unsigned integer. Value range: 1 to 10, in seconds.	Default: 3 seconds.
QuietTime	Quiet timer for the servers specified in the RADIUS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes.
PktRetryTimes	Max number of attempts to send a RADIUS packet to a single RADIUS server	N/A	Unsigned integer. Value range: 1 to 20.	Default: 3.
RealAcctRetryTimes	Max number of realtime accounting attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 5.
UserNameFormat	Format of user names to be sent to RADIUS servers	N/A	Enumeration: 0—keep-original. 1—with-domain. 2—without-domain.	Default: 1.
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte.	Default: 0.
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: 0—one-packet. 1—kilo-packet. 2—mega-packet. 3—giga-packet.	Default: 0.
NasIpv4Address	Source IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
NasIpv6Address	Source IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
AuthenKey	Authentication shared key	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
AcctKey	Accounting shared key	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
VRF	VPN instance name for the RADIUS scheme	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ClassType	Whether to interpret the RADIUS class attribute (attribute 25) as CAR parameters	N/A	Enumeration: 0—Standard. 1—CAR.	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: - true. - false.	Default: false.
AcctOnSendInterval	Interval for retransmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 15, in seconds.	Default: 3 seconds. Only when the AcctOnEnable column is true, this column is effective.
AcctOnSendTimes	Max number of accounting-on packet transmission attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 50. Only when the AcctOnEnable column is true, this column is effective.
ChangePassword	Whether to enable the online password change feature	N/A	Enumeration: 0—Disable. 1—Enable.	Default: 0.

Radius/Client/AuthServers

RADIUS authentication server table.

XML structure

```
<Radius>
  <Client>
    <AuthServers>
      <AuthServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Key></Key>
        <SvrTestProfileName></SvrTestProfileName>
      </AuthServer>
    </AuthServers>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can create one primary authentication server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authentication server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Secondary authentication server.	
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS authentication server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
Key	Shared key of RADIUS authentication packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.
SvrTestProfileName	Name of the test profile	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A

Radius/Client/AcctServers

RADIUS accounting server table.

XML structure

```

<Radius>
  <Client>
    <AcctServers>
      <AcctServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
      </AcctServer>
    </AcctServers>
  </Client>
</Radius>

```

```

    <VRF></VRF>
    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <Key></Key>
  </AcctServer>
</AcctServers>
</Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can create one primary accounting server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary accounting server. 1—Secondary accounting server.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS accounting server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1,

Column name	Column description	Column type	Data type and restrictions	Remarks
				this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
Key	Shared key of RADIUS accounting packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

Radius/Server/SessCtrlService

RADIUS session-control feature table.

XML structure

```

<Radius>
  <Server>
    <SessCtrlService>
      <Status></Status>
      <Port></Port>
    </SessCtrlService>
  </Server>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlService
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS session-control feature	N/A	Boolean: - true. - false.	Default: false.
Port	UDP port listening for RADIUS session-control packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 1812. The value is not supported to configure at present.

Radius/Server/SessCtrlClients

RADIUS session-control client table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlClients>
      <SessCtrlClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Key></Key>
      </SessCtrlClient>
    </SessCtrlClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlClients
Table type	Multi-instance table
Row name	SessCtrlClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the session-control client IP address	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	IP address of the session-control client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
Key	Shared key of RADIUS session-control packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

Radius/Server/DaeService

RADIUS DAE server feature table.

XML structure

```

<Radius>
  <Server>
    <DaeService>
      <Status></Status>
      <Port></Port>
    </DaeService>
  </Server>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	DaeService

Item	Description
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS DAE server feature	N/A	Boolean: - true. - false.	Default: false.
Port	UDP port listening for RADIUS DAE packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column is effective only when the Status column is true.

Radius/Server/DaeClients

RADIUS DAE client table.

XML structure

```

<Radius>
  <Server>
    <DaeClients>
      <DaeClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <Key></Key>
      </DaeClient>
    </DaeClients>
  </Server>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	DaeClients
Table type	Multi-instance table
Row name	DaeClient

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the DAE client IP address	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	IP address of the DAE client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.
Key	Shared key of RADIUS DAE packets	N/A	In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters. In FIPS mode, a plaintext shared key is a string of 15 to 64 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	The shared key is in plain text.

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Columns	13
Radius/Server/DaeService	13
XML structure	13
Table description	13
Columns	14
Radius/Server/DaeClients	14
XML structure	14
Table description	14
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Radius/Statistic/AcctServers	18
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Columns	23
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Radius

Radius/Trap

SNMP notification information table of RADIUS.

XML structure

```
<Radius>
  <Trap>
    <AuthErrThreshold></AuthErrThreshold>
    <Switchs>
      <AuthServerDown></AuthServerDown>
      <AuthServerUp></AuthServerUp>
      <AcctServerDown></AcctServerDown>
      <AcctServerUp></AcctServerUp>
      <AuthErrReachThreshold></AuthErrReachThreshold>
    </Switchs>
  </Trap>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Trap
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthErrThresh hold	The threshold for authentication failure notification	N/A	Unsigned integer. Value range: 1 to 100.	Default: 30. An authentication failure notification will be sent if the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold. This column is not supported to configure

Column name	Column description	Column type	Data type and restrictions	Remarks
				at present.
Switchs	Whether to enable each type of notification	Data structure	Members include: - AuthServerDown. - AuthServerUp. - AcctServerDown. - AcctServerUp. - AuthErrReachThreshold.	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: - true. - false.	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: - true. - false.	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: - true. - false.	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: - true. - false.	Default: false.
AuthErrReachThreshold	Whether to send a notification when the number of authentication failures compared to the total number of authentication attempts exceeds the specified threshold	N/A	Boolean: - true. - false.	Default: false.

Radius/Dscp

The DSCP priority of RADIUS packets.

XML structure

```
<Radius>
  <Dscp>
    <Ipv4></Ipv4>
    <Ipv6></Ipv6>
  </Dscp>
```

</Radius>

Table description

Item	Description
Feature name	Radius
Table name	Dscp
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4	DSCP priority of IPv4 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.
Ipv6	DSCP priority of IPv6 RADIUS packets	N/A	Unsigned integer. Value range: 0 to 63.	Default: 0.

Radius/Client/GlobalNasIps

RADIUS global NAS IP information table.

XML structure

```
<Radius>
  <Client>
    <GlobalNasIps>
      <GlobalNasIp>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </GlobalNasIp>
    </GlobalNasIps>
  </Client>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	GlobalNasIps

Item	Description
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	A maximum of 16 global NAS IP addresses are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the source IP address for outgoing RADIUS packets	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	Source IP address for outgoing RADIUS packets	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents an IPv4 address. For example, 1.0.0.1. If the IpType value is 1, this column represents an IPv6 address. For example, 2001:12::1:2.

Radius/Client/ServerTestProfiles

The test profile table for RADIUS server status detection.

XML structure

```

<Radius>
  <Client>
    <ServerTestProfiles>
      <ServerTestProfile>
        <ProfileName></ProfileName>
        <UserName></UserName>
        <Interval></Interval>
      </ServerTestProfile>
    </ServerTestProfiles>
  </Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	ServerTestProfiles
Table type	Multi-instance table
Row name	ServerTestProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the RADIUS test profile	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
UserName	User name for the RADIUS test profile	N/A	String, case-sensitive. Length: 1 to 253 characters.	This column is required.
Interval	Period for sending test packets	N/A	Unsigned integer. Value range: 1 to 3600, in minutes.	Default: 60 minutes.

Radius/Client/Schemes

RADIUS scheme table.

XML structure

```
<Radius>
  <Client>
    <Schemes>
      <Scheme>
        <SchemeName></SchemeName>
        <RealAcctInterval></RealAcctInterval>
        <TimeOut></TimeOut>
        <QuietTime></QuietTime>
        <PktRetryTimes></PktRetryTimes>
        <RealAcctRetryTimes></RealAcctRetryTimes>
        <UserNameFormat></UserNameFormat>
        <BytesUnit></BytesUnit>
        <PacketsUnit></PacketsUnit>
        <NasIpv4Address></NasIpv4Address>
        <NasIpv6Address></NasIpv6Address>
        <VRF></VRF>
      </Scheme>
    </Schemes>
  </Client>
</Radius>
```

```

    <ClassType></ClassType>
    <AcctOnEnable></AcctOnEnable>
    <AcctOnSendInterval></AcctOnSendInterval>
    <AcctOnSendTimes></AcctOnSendTimes>
    <ChangePassword></ChangePassword>
  </Scheme>
</Schemes>
</Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	A maximum of 16 RADIUS schemes are supported.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 71582, in seconds.	The device converts the interval value to a value in seconds even if the configured measurement unit is minute. Zero indicates that the device doesn't send realtime accounting packets to the RADIUS accounting server.
TimeOut	RADIUS server response timeout period	N/A	Unsigned integer. Value range: 1 to 10, in seconds.	Default: 3 seconds.
QuietTime	Quiet timer for the servers specified in the RADIUS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes.
PktRetryTimes	Max number of attempts to send a RADIUS packet to a single RADIUS server	N/A	Unsigned integer. Value range: 1 to 20.	Default: 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
RealAcctRetryTimes	Max number of realtime accounting attempts	N/A	Unsigned integer. Value range: 1 to 255.	Default: 5.
UserNameFormat	Format of user names to be sent to RADIUS servers	N/A	Enumeration: 0—keep-original. 1—with-domain. 2—without-domain.	Default: 1.
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte.	Default: 0.
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: 0—one-packet. 1—kilo-packet. 2—mega-packet. 3—giga-packet.	Default: 0.
NasIpv4Address	Source IPv4 address for outgoing RADIUS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	Source IPv6 address for outgoing RADIUS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
VRF	VPN instance name for the RADIUS scheme	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
ClassType	Whether to interpret the RADIUS class attribute (attribute 25) as CAR parameters	N/A	Enumeration: 0—Standard. 1—CAR.	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: - true. - false.	Default: false.
AcctOnSendInterval	Time interval for retransmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 15, in seconds.	Default: 3 seconds. This column is effective only when the AcctOnEnable value is true.
AcctOnSendTimes	Max number of attempts for transmitting an accounting-on packet	N/A	Unsigned integer. Value range: 1 to 255.	Default: 50. This column is effective only when the AcctOnEnable value is true.
ChangePass	Enabling status	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
word	of the online password change feature		0—Disabled. 1—Enabled.	

Radius/Client/AuthServers

RADIUS authentication server table.

XML structure

```

<Radius>
  <Client>
    <AuthServers>
      <AuthServer>
        <SchemeName></SchemeName>
        <Priority></Priority>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <SvrTestProfileName></SvrTestProfileName>
        <State></State>
      </AuthServer>
    </AuthServers>
  </Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can specify one primary authentication server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authentication server. 1—Secondary authentication server.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS authentication server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
SvrTestProfileName	Name of the test profile	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
State	Status of the RADIUS authentication server	N/A	Enumeration: 0—Active. 1—Blocked.	N/A

Radius/Client/AcctServers

RADIUS accounting server table.

XML structure

```

<Radius>
  <Client>
    <AcctServers>

```



```

<AcctServer>
  <SchemeName></SchemeName>
  <Priority></Priority>
  <VRF></VRF>
  <IpType></IpType>
  <Host></Host>
  <Port></Port>
  <State></State>
</AcctServer>
</AcctServers>
</Client>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can specify one primary accounting server and a maximum of 16 secondary servers in one RADIUS scheme. To change the primary server, you must remove the old primary server first, and then specify a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	RADIUS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary accounting server. 1—Secondary accounting server.	N/A
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS accounting server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the

Column name	Column description	Column type	Data type and restrictions	Remarks
			FQDN: String of 1 to 255 characters.	server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1813.
State	Status of the RADIUS accounting server	N/A	Enumeration: 0—Active. 1—Blocked.	N/A

Radius/Server/SessCtrlService

RADIUS session-control feature table.

XML structure

```

<Radius>
  <Server>
    <SessCtrlService>
      <Status></Status>
      <Port></Port>
    </SessCtrlService>
  </Server>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlService
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS session-control feature	N/A	Boolean: - true. - false.	Default: false.
Port	UDP port listening for RADIUS session-control packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 1812. The value is not supported to configure at present.

Radius/Server/SessCtrlClients

RADIUS session-control client table.

XML structure

```
<Radius>
  <Server>
    <SessCtrlClients>
      <SessCtrlClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </SessCtrlClient>
    </SessCtrlClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrlClients
Table type	Multi-instance table
Row name	SessCtrlClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the session-control client address	Index	Enumeration: • 0—IPv4. • 1—IPv6.	N/A
IpAddress	IP address of the session-control client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Radius/Server/DaeService

RADIUS DAE server feature table.

XML structure

```
<Radius>
  <Server>
    <DaeService>
      <Status></Status>
      <Port></Port>
    </DaeService>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeService
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable the RADIUS DAE server feature	N/A	Boolean: - true. - false.	Default: false.
Port	UDP port listening for RADIUS DAE packets	N/A	Unsigned integer. Value range: 1 to 65535.	Default: 3799. This column is effective only when the Status column is true.

Radius/Server/DaeClients

RADIUS DAE client table.

XML structure

```
<Radius>
  <Server>
    <DaeClients>
      <DaeClient>
        <VRF></VRF>
        <IpType></IpType>
        <IpAddress></IpAddress>
      </DaeClient>
    </DaeClients>
  </Server>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	DaeClients
Table type	Multi-instance table
Row name	DaeClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance	Index	String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 31 characters.	
IpType	Type of the DAE client IP address	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	IP address of the DAE client	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	If the IpType value is 0, this column represents the IPv4 address of the client. For example, 1.0.0.1. If the IpType value is 1, this column represents the IPv6 address of the client. For example, 2001:12::1:2.

Radius/Statistic/AuthServers

RADIUS authentication server statistics table.

XML structure

```

<Radius>
  <Statistic>
    <AuthServers>
      <AuthServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Request></Request>
        <ReTrans></ReTrans>
        <Accept></Accept>
        <Reject></Reject>
        <Challenge></Challenge>
        <Malformed></Malformed>
        <BadAuthenticator></BadAuthenticator>
        <PendingRequest></PendingRequest>
        <TimeOut></TimeOut>
        <UnknownType></UnknownType>
        <Dropped></Dropped>
        <LastRoundTripTime></LastRoundTripTime>
      </AuthServer>
    </AuthServers>
  </Statistic>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS authentication server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number for the RADIUS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 1812.
Request	Number of RADIUS Access-Request packets sent to this server	N/A	Unsigned integer.	This column does not include retransmissions.
ReTrans	Number of RADIUS Access-Request packets retransmitted to this server	N/A	Unsigned integer.	N/A
Accept	Number of RADIUS Access-Accept packets (valid or	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	invalid) received from this server			
Reject	Number of RADIUS Access-Reject packets (valid or invalid) received from this server	N/A	Unsigned integer.	N/A
Challenge	Number of RADIUS Access-Challenge packets (valid or invalid) received from this server	N/A	Unsigned integer.	N/A
Malformed	Number of malformed RADIUS authentication responses received from this server	N/A	Unsigned integer.	The BadAuthenticator and UnknownType statistics are not included. Malformed packets include packets with an invalid length.
BadAuthenticator	Number of RADIUS authentication responses received from this server	N/A	Unsigned integer.	The packets contain invalid authenticators or Signature attributes.
PendingRequest	Number of RADIUS Access-Request packets waiting for responses	N/A	Unsigned integer.	This variable is incremented when an Access-Request is sent. This variable is decremented because of the receipt of an Access-Accept, Access-Reject, or Access-Challenge, or because of a request timeout or retransmission.
TimeOut	Number of authentication timeouts to this server	N/A	Unsigned integer.	After a timeout, the client may retransmit the authentication request to the same server, send a new request to another server, or give up.
UnknownType	Number of unknown-type RADIUS packets that were received from this server on the authentication port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Dropped	Number of RADIUS packets that were received from this server on the authentication port and dropped for some other reason	N/A	Unsigned integer.	N/A
LastRoundTripTime	Time interval (in hundredths of a second) between the most recent authentication response and request exchanged with the RADIUS authentication server	N/A	Unsigned integer.	N/A

Radius/Statistic/AcctServers

RADIUS accounting server statistics table.

XML structure

```

<Radius>
  <Statistic>
    <AcctServers>
      <AcctServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <Request></Request>
        <ReTrans></ReTrans>
        <Response></Response>
        <Malformed></Malformed>
        <BadAuthenticator></BadAuthenticator>
        <PendingRequest></PendingRequest>
        <TimeOut></TimeOut>
        <UnKnownType></UnKnownType>
        <Dropped></Dropped>
        <LastRoundTripTime></LastRoundTripTime>
        <AcctStartRequest></AcctStartRequest>
        <AcctStartResponse></AcctStartResponse>
        <AcctUpdateRequest></AcctUpdateRequest>
        <AcctUpdateResponse></AcctUpdateResponse>
      </AcctServer>
    </AcctServers>
  </Statistic>
</Radius>

```

```

    <AcctStopRequest></AcctStopRequest>
    <AcctStopResponse></AcctStopResponse>
  </AcctServer>
</AcctServers>
</Statistic>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the RADIUS accounting server	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	RADIUS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	If the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. If the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	UDP port number of the RADIUS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Request	Number of RADIUS Accounting-Request packets sent to this server	N/A	Unsigned integer.	This column does not include retransmissions.
ReTrans	Number of RADIUS	N/A	Unsigned integer.	Retransmissions include the retries in

Column name	Column description	Column type	Data type and restrictions	Remarks
	Accounting-Request packets retransmitted to this server			which the Identifier and Acct-Delay have been updated, as well as the retries in which the Identifier and Acct-Delay have not been updated.
Response	Number of RADIUS packets received on the accounting port from this server	N/A	Unsigned integer.	N/A
Malformed	Number of malformed RADIUS Accounting-Response packets received from this server	N/A	Unsigned integer.	The BadAuthenticator and UnknownType statistics are not included. Malformed packets include packets with an invalid length.
BadAuthenticator	Number of RADIUS Accounting-Response packets received from this server	N/A	Unsigned integer.	The packets contain invalid authenticators.
PendingRequest	Number of RADIUS Accounting-Request packets waiting for responses	N/A	Unsigned integer.	This variable is incremented when an Accounting-Request is sent. This variable is decremented because of the receipt of an Accounting-Response or a request timeout or retransmission.
TimeOut	Number of accounting timeouts to this server	N/A	Unsigned integer.	After a timeout, the client may retransmit the accounting request to the same server, send a new request to another server, or give up.
UnknownType	Number of unknown-type RADIUS packets that were received from this server on the accounting port	N/A	Unsigned integer.	N/A
Dropped	Number of RADIUS packets that were received from this server on the accounting port and dropped for	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	some other reason			
LastRoundTripTime	Time interval between the most recent Accounting-Response and the Accounting-Request exchanged with the RADIUS accounting server	N/A	Unsigned integer.	N/A
AcctStartRequest	Number of start accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctStartResponse	Number of start accounting responses received from this server	N/A	Unsigned integer.	N/A
AcctUpdateRequest	Number of realtime accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctUpdateResponse	Number of realtime accounting responses received from this server	N/A	Unsigned integer.	N/A
AcctStopRequest	Number of stop accounting requests sent to this server	N/A	Unsigned integer.	N/A
AcctStopResponse	Number of stop accounting responses received from this server	N/A	Unsigned integer.	N/A

Radius/Statistic/SessCtrl

The statistics table of the session-control feature.

XML structure

```

<Radius>
  <Statistic>
    <SessCtrl>
      <Request></Request>
    
```

```

    <Response></Response>
    <Dropped></Dropped>
    <CheckFail></CheckFail>
    <Terminate></Terminate>
    <SetPolicy></SetPolicy>
  </SessCtrl>
</Statistic>
</Radius>

```

Table description

Item	Description
Feature name	Radius
Table name	SessCtrl
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Request	Number of received session-control request packets	N/A	Unsigned integer.	N/A
Response	Number of sent session-control response packets	N/A	Unsigned integer.	N/A
Dropped	Number of discarded session-control request packets	N/A	Unsigned integer.	The CheckFail statistics are not included.
CheckFail	Number of check-failed session-control request packets	N/A	Unsigned integer.	N/A
Terminate	Number of user-offline session-control request packets	N/A	Unsigned integer.	N/A
SetPolicy	Number of session-control request packets for modifying user permissions	N/A	Unsigned integer.	N/A

Radius/Statistic/Dae

The statistics table of the DAE server feature.

XML structure

```
<Radius>
  <Statistic>
    <Dae>
      <Request></Request>
      <ReTrans></ReTrans>
      <Response></Response>
      <Dropped></Dropped>
      <CheckFail></CheckFail>
      <Disconnect></Disconnect>
      <Coa></Coa>
      <UnknownType></UnknownType>
    </Dae>
  </Statistic>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	Dae
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Request	Number of received DAE request packets	N/A	Unsigned integer.	N/A
ReTrans	Number of DAE request packets retransmitted by the DAE clients	N/A	Unsigned integer.	N/A
Response	Number of DAE response packets sent to the DAE clients	N/A	Unsigned integer.	N/A
Dropped	Number of discarded DAE	N/A	Unsigned integer.	The CheckFail and UnknownType statistics

Column name	Column description	Column type	Data type and restrictions	Remarks
	request packets			are not included.
CheckFail	Number of check-failed DAE request packets	N/A	Unsigned integer.	N/A
UnknownType	Number of unknown DAE request packets	N/A	Unsigned integer.	N/A
Disconnect	Number of user-offline DAE request packets	N/A	Unsigned integer.	N/A
Coa	Number of DAE request packets for modifying user permissions	N/A	Unsigned integer.	N/A

Radius/PasswordLimit

Requirements to meet when you configure passwords for the RADIUS module.

XML structure

```
<Radius>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</Radius>
```

Table description

Item	Description
Feature name	Radius
Table name	PasswordLimit
Table type	Single-instance table
Row name	None
Restrictions	- The configuration takes effect on the following items: - Radius/Client/Schemes table: <pre><AuthenKey></AuthenKey> <AcctKey></AcctKey></pre> - Radius/Client/AuthServers table: <pre><Key></Key></pre> - Radius/Client/AcctServers table: <pre><Key></Key></pre>

Item	Description
	- Radius/Server/SessCtrlClients table: <Key></Key> - Radius/Server/DaeClients table: <Key></Key> - Radius/Proxy/DaeProxyClients table: <Key></Key> - Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	Minimum password length	N/A	Unsigned integer.	N/A
MaxLen	Maximum password length	N/A	Unsigned integer.	N/A
MinTypeNum	Minimum number of character types that the password must contain	N/A	Unsigned integer.	Character types include digit, uppercase letter, lowercase letter, and special character. For example, if the value is set to 3, the password string must include three or more character types.

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RBAC

RBAC/Roles

RBAC role table.

XML structure

```
<RBAC>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <Description></Description>
      <PermitAllInterface></PermitAllInterface>
      <PermitAllVLAN></PermitAllVLAN>
      <PermitAllVRF></PermitAllVRF>
      <PermitAllSecZone></PermitAllSecZone>
    </Role>
  </Roles>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description of the role	N/A	String. Length: 1 to 128 characters.	Predefined roles have default descriptions, which are different. User-defined roles do not have default descriptions.
PermitAllInterface	Whether to allow access to all interfaces	N/A	Boolean: - true - false	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: - true - false	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: - true - false	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: - true - false	The default value is true.

RBAC/Rules

RBAC rule table.

XML structure

```

<RBAC>
  <Rules>
    <Rule>
      <RoleName></RoleName>
      <RuleIndex></RuleIndex>
      <Action></Action>
      <ReadOperation></ReadOperation>
      <WriteOperation></WriteOperation>
      <ExecOperation></ExecOperation>
      <EntityType></EntityType>
      <Entity></Entity>
    </Rule>
  </Rules>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	Rules

Item	Description
Table type	Multi-instance table
Row name	Rule
Restrictions	When the EntityType value is feature , the Entity value must be selected from the RBAC/Features table, and the RoleName value must be selected from the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
RuleIndex	Index of the rule	Index	Unsigned integer. Value range: 1 to 256.	The bigger the index, the higher the priority. RBAC rules are matched in descending order of priority.
Action	Action	N/A	Enumeration: 0—permit. 1—deny.	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: - true - false	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: - true - false	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: - true - false	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: 0—Command. 1—Feature. 2—Feature group. 3—Web menu. 4—XML element. 5—SNMP OID.	The system ignores values of the ReadOperation, WriteOperation, and ExecOperation columns of entities of command type.

Column name	Column description	Column type	Data type and restrictions	Remarks
Entity	Entity	N/A	Command: String. Length: 1 to 128 characters. Feature: String. Length: 1 to 15 characters. Feature group: String. Length: 1 to 31 characters. Web menu: String. Length: 1 to 255 characters. XML element: String. Length: 1 to 255 characters. SNMP OID: String. Length: 1 to 255 characters.	For information about different types of entities, see the RBAC configuration in the user manual.

RBAC/Policies/InterfacePolicies

RBAC interface policy table.

XML structure

```

<RBAC>
  <Policies>
    <InterfacePolicies>
      <Policy>
        <RoleName></RoleName>
        <InterfaceListPermitted></InterfaceListPermitted>
      </Policy>
    </InterfacePolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	InterfacePolicies
Table type	Multi-instance table
Row name	Policy

Item	Description
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllInterface to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
InterfaceListPermitted	A list of permitted interfaces specified by full names	N/A	String. Length: 0 to 32767 characters.	To specify an interface range, make sure the interfaces are located on the same chassis, slot, or subslot. Specify the interface range with the last portion of the interface number. For example, set the list the following: GigabitEthernet0/0/1, GigabitEthernet0/0/10 to GigabitEthernet0/0/20, GigabitEthernet0/0/25

RBAC/Policies/VLANPolicies

RBAC VLAN policy table.

XML structure

```

<RBAC>
  <Policies>
    <VLANPolicies>
      <Policy>
        <RoleName></RoleName>
        <VLANListPermitted></VLANListPermitted>
      </Policy>
    </VLANPolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	VLANPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllVLAN to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
VLANListPermitted	A list of permitted VLANs	N/A	String. Length: 0 to 32767 characters.	The string can contain only numbers, minus signs, and commas, and cannot end with a comma or minus sign. The string does not support blank characters. For example, 1,2,3,5-8,10-20.

RBAC/Policies/VRF Policies

RBAC VRF policy table.

XML structure

```
<RBAC>
  <Policies>
    <VRFPolicies>
      <Policy>
        <RoleName></RoleName>
        <VRFPermitted></VRFPermitted>
      </Policy>
    </VRFPolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	VRFPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllVRF to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
VRFPPermitted	Name of the permitted VRF instance	Index	String. Length: 1 to 31 characters.

RBAC/Policies/SecZonePolicies

RBAC security zone policy table.

XML structure

```
<RBAC>
  <Policies>
    <SecZonePolicies>
      <Policy>
        <RoleName></RoleName>
        <SecZonePermitted></SecZonePermitted>
      </Policy>
    </SecZonePolicies>
  </Policies>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	SecZonePolicies

Item	Description
Table type	Multi-instance table
Row name	Policy
Restrictions	Select the value of RoleName from the RBAC/Roles table. Before configuring the table, first set the value of PermitAllSecZone to false in the RBAC/Roles table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
SecZonePermitted	Name of the permitted security zone	Index	String. Length: 1 to 13 characters.

RBAC/FeatureGroups

RBAC feature group table.

XML structure

```

<RBAC>
  <FeatureGroups>
    <FeatureGroup>
      <Name></Name>
    </FeatureGroup>
  </FeatureGroups>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	FeatureGroups
Table type	Multi-instance table
Row name	FeatureGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the feature group	Index	String. Length: 1 to 31 characters.	The predefined feature groups named L2 and L3 cannot be modified.

RBAC/FeaturesInGroup

RBAC Feature In Group table.

XML structure

```

<RBAC>
  <FeaturesInGroup>
    <Feature>
      <GroupName></GroupName>
      <FeatureName></FeatureName>
    </Feature>
  </FeaturesInGroup>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	FeaturesInGroup
Table type	Multi-instance table
Row name	Feature
Restrictions	The value of FeatureName must be selected from the RBAC/Features table. The value of GroupName must be selected from the RBAC/FeatureGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the group	Index	String. Length: 1 to 31 characters.
FeatureName	Name of the feature	Index	String. Length: 1 to 15 characters.

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Columns	8
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XML structure	9
Table description	9
Columns	9
RBAC/FeaturesInGroup	9
XML structure	9
Table description	10
Columns	10

RBAC

RBAC/Roles

RBAC role table.

XML structure

```
<RBAC>
  <Roles>
    <Role>
      <RoleName></RoleName>
      <Description></Description>
      <PermitAllInterface></PermitAllInterface>
      <PermitAllVLAN></PermitAllVLAN>
      <PermitAllVRF></PermitAllVRF>
      <PermitAllSecZone></PermitAllSecZone>
      <IsPreDefined></IsPreDefined>
      <CanAddRules></CanAddRules>
    </Role>
  </Roles>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Roles
Table type	Multi-instance table
Row name	Role
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
Description	Description of the role	N/A	String. Length: 1 to 128 characters.	Predefined roles have default descriptions, which are different. User-defined roles do not have default descriptions.

Column name	Column description	Column type	Data type and restrictions	Remarks
PermitAllInterface	Whether to allow access to all interfaces	N/A	Boolean: - true - false	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: - true - false	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: - true - false	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: - true - false	The default value is true.
IsPreDefined	Whether it is a predefined role	N/A	Boolean: - true - false	Predefined roles include network-admin, network-operator, and level-0 to level-15 users.
CanAddRules	Whether to allow users to add rules	N/A	Boolean: - true - false	All user-defined roles, and part of the predefined roles allow users to add rules.

RBAC/Rules

RBAC rule table.

XML structure

```

<RBAC>
  <Rules>
    <Rule>
      <RoleName></RoleName>
      <RuleIndex></RuleIndex>
      <IsPreDefined></IsPreDefined>
      <Action></Action>
      <ReadOperation></ReadOperation>
      <WriteOperation></WriteOperation>
      <ExecOperation></ExecOperation>
      <EntityType></EntityType>
      <Entity></Entity>
    </Rule>
  </Rules>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
RuleIndex	Index of the rule	Index	Unsigned integer. Value range: 1 to 256.	The bigger the index, the higher the priority. RBAC rules are matched in descending order of priority.
IsPreDefined	Whether it is a predefined rule	Index	Boolean: true false	Predefine rules can not be modified.
Action	Action	N/A	Enumeration: • 0—permit. • 1—deny.	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: • true • false	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: • true • false	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: • true • false	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: • 0—Command. • 1—Feature. • 2—Feature group. • 3—Web menu. • 4—XML element. • 5—SNMP OID.	The system ignores values of the ReadOperation, WriteOperation, and ExecOperation columns of entities of command type.

Column name	Column description	Column type	Data type and restrictions	Remarks
Entity	Entity	N/A	Command: String. Length: 1 to 128 characters. Feature: String. Length: 1 to 15 characters. Feature group: String. Length: 1 to 31 characters. Web menu: String. Length: 1 to 255 characters. XML element: String. Length: 1 to 255 characters. SNMP OID: String. Length: 1 to 255 characters.	For information about different types of entities, see the RBAC configuration in the user manual.

RBAC/Policies/InterfacePolicies

RBAC interface policy table.

XML structure

```

<RBAC>
  <Policies>
    <InterfacePolicies>
      <Policy>
        <RoleName></RoleName>
        <InterfaceListPermitted></InterfaceListPermitted>
      </Policy>
    </InterfacePolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	InterfacePolicies
Table type	Multi-instance table
Row name	Policy

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
InterfaceListPermitted	A list of permitted interfaces specified by full names	N/A	String. Length: 0 to 32767 characters.	To specify an interface range, make sure the interfaces are located on the same chassis, slot, or subslot. Specify the interface range with the last portion of the interface number. For example, set the list the following: GigabitEthernet0/0/1, GigabitEthernet0/0/10 to GigabitEthernet0/0/20, GigabitEthernet0/0/25

RBAC/Policies/VLANPolicies

RBAC VLAN policy table.

XML structure

```

<RBAC>
  <Policies>
    <VLANPolicies>
      <Policy>
        <RoleName></RoleName>
        <VLANListPermitted></VLANListPermitted>
      </Policy>
    </VLANPolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	VLANPolicies
Table type	Multi-instance table

Item	Description
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.	N/A
VLANListPermitted	A list of permitted VLANs	N/A	String. Length: 0 to 32767 characters.	The string can contain only numbers, minus signs, and commas, and cannot end with a comma or minus sign. The string does not support blank characters. For example, 1,2,3,5-8,10-20.

RBAC/Policies/VRFPolicies

RBAC VRF policy table.

XML structure

```

<RBAC>
  <Policies>
    <VRFPolicies>
      <Policy>
        <RoleName></RoleName>
        <VRFPermitted></VRFPermitted>
      </Policy>
    </VRFPolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	VRFPolicies
Table type	Multi-instance table
Row name	Policy

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
VRFPermitted	Name of the permitted VRF instance	Index	String. Length: 1 to 31 characters.

RBAC/Policies/SecZonePolicies

RBAC security zone policy table.

XML structure

```

<RBAC>
  <Policies>
    <SecZonePolicies>
      <Policy>
        <RoleName></RoleName>
        <SecZonePermitted></SecZonePermitted>
      </Policy>
    </SecZonePolicies>
  </Policies>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	SecZonePolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RoleName	Name of the role	Index	String. Length: 1 to 63 characters.
SecZonePermitted	Name of the permitted security zone	Index	String. Length: 1 to 31 characters.

RBAC/Features

RBAC feature table.

XML structure

```
<RBAC>
  <Features>
    <Feature>
      <Name></Name>
      <Description></Description>
    </Feature>
  </Features>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	Features
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the feature group	Index	String. Length: 1 to 31 characters.	The predefined feature groups named L2 and L3 cannot be modified.

RBAC/FeatureGroups

RBAC feature group table.

XML structure

```
<RBAC>
  <FeatureGroups>
    <FeatureGroup>
      <Name></Name>
      <IsPreDefined></IsPreDefined>
    </FeatureGroup>
  </FeatureGroups>
</RBAC>
```

Table description

Item	Description
Feature name	RBAC
Table name	FeatureGroups
Table type	Multi-instance table
Row name	FeatureGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Name of the group	Index	String. Length: 1 to 31 characters.
IsPreDefined	Whether it is a predefined group	N/A	Boolean: - true - false

RBAC/FeaturesInGroup

RBAC Feature In Group table.

XML structure

```
<RBAC>
  <FeaturesInGroup>
    <Feature>
      <GroupName></GroupName>
    </Feature>
  </FeaturesInGroup>
</RBAC>
```

```

        <FeatureName></FeatureName>
    </Feature>
</FeaturesInGroup>
</RBAC>

```

Table description

Item	Description
Feature name	RBAC
Table name	FeaturesInGroup
Table type	Multi-instance table
Row name	Feature
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Name of the group	Index	String. Length: 1 to 31 characters.
FeatureName	Name of the feature	Index	String. Length: 1 to 15 characters.

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RDDC

RDDC/RedundancySwitchoverRequest

This table is used to switch over the redundancy group manually.

XML structure

```
<RDDC>
  <RedundancySwitchoverRequest>
    <SwitchoverRequest>
      <GroupName></GroupName>
    </SwitchoverRequest>
  </RedundancySwitchoverRequest>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancySwitchoverRequest
Table type	Multi-instance table
Row name	SwitchoverRequest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.

RDDC/RedundancySwitchoverReset

This table is used to trigger preemption in redundancy group manually.

XML structure

```
<RDDC>
  <RedundancySwitchoverReset>
    <SwitchoverReset>
      <GroupName></GroupName>
    </SwitchoverReset>
  </RedundancySwitchoverReset>
</RDDC>
```



```

        </SwitchoverReset>
    </RedundancySwitchoverReset>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancySwitchoverReset
Table type	Multi-instance table
Row name	SwitchoverReset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.

RDDC/RedundancyGroupClear

This table is used to clear redundancy group node or redundancy group itself.

XML structure

```

<RDDC>
  <RedundancyGroupClear>
    <RedundancyClear>
      <GroupName></GroupName>
      <NodeID></NodeID>
    </RedundancyClear>
  </RedundancyGroupClear>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupClear
Table type	Multi-instance table
Row name	RedundancyClear
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.	If you do not specify this column, clear the group.

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XML structure.....	6
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Columns	7

RDDC

RDDC/RedundancyInterfaceMember

This table contains member interface information in redundancy interface.

XML structure

```
<RDDC>
  <RedundancyInterfaceMember>
    <MemberInterface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <Priority></Priority>
    </MemberInterface>
  </RedundancyInterfaceMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyInterfaceMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 3 Ethernet interface Layer 3 aggregate interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.
MemberIfIndex	Member interface index.	Index	Unsigned integer.	N/A
Priority	Priority of the member interface	N/A	Unsigned integer. Value range: 1 to 255.	Required. The higher the value, the greater the priority.

RDDC/RedundancyGroup

This table contains redundancy group information.

XML structure

```
<RDDC>
  <RedundancyGroup>
    <Group>
      <GroupName></GroupName>
      <PreemptDelay></PreemptDelay>
      <HoldDownInterval></HoldDownInterval>
    </Group>
  </RedundancyGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
PreemptDelay	Preempt delay time of redundancy group node	N/A	Unsigned integer. Value range: 0 to 12 minutes. Default: 1 minute.	0 means no switchover.
HoldDownInterval	Hold-down time	N/A	Unsigned integer. Value range: 0 to 1800 seconds. Default: 1 second	0 means not to hold down in switchover.

RDDC/RedundancyGroupMember

This table contains redundancy interface information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyGroupMember>
    <MemberInterface>
      <GroupName></GroupName>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

RDDC/RedundancyFailoverGroup

This table contains failover group information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyFailoverGroup>
    <FailoverGroup>
      <GroupName></GroupName>
      <FailoverGroupName></FailoverGroupName>
    </FailoverGroup>
  </RedundancyFailoverGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyFailoverGroup
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
FailoverGroupUpName	Failover group name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A

RDDC/RedundancyGroupNode

This table contains redundancy group node information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyGroupNode>
    <Node>
      <GroupName></GroupName>
    </Node>
  </RedundancyGroupNode>
</RDDC>
```

```

        <NodeID></NodeID>
        <Priority></Priority>
        <BindChassis></BindChassis>
    </Node>
</RedundancyGroupNode>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNode
Table type	Multi-instance table
Row name	Node
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
Priority	Priority of this redundancy group node	N/A	Unsigned integer. Value range: 1 to 255. Default: 1.	The higher the value, the greater the priority.
BindChassis	The bound chassis ID	N/A	Unsigned integer.	N/A

RDDC/RedundancyGroupTrack

This table contains track information of redundancy group node.

XML structure

```

<RDDC>
  <RedundancyGroupTrack>
    <Track>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <TrackID></TrackID>
      <ReducePriority></ReducePriority>
    </Track>
  </RedundancyGroupTrack>
</RDDC>

```



```

        <IfIndex></IfIndex>
    </Track>
</RedundancyGroupTrack>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupTrack
Table type	Multi-instance table
Row name	Track
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1to 2.	N/A
TrackID	The track ID	Index	Unsigned integer. Value range: 1to 1024.	N/A
ReducePriority	Reduce priority of redundancy group node	N/A	Unsigned integer. Value range: 1to 255. Default: 255.	N/A
IfIndex	Track interface index.	N/A	Unsigned integer.	N/A

RDDC/RedundancyGroupNodeMember

This table contains member interface information in redundancy group node.

XML structure

```

<RDDC>
  <RedundancyGroupNodeMember>
    <MemberInterface>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupNodeMember>
</RDDC>

```

```

    </RedundancyGroupNodeMember>
  </RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNodeMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	Bind redundancy group node with chassis first. This table supports member interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	The interface must belong to the chassis bound with the redundancy group node. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.

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RDDC

RDDC/RedundancyInterfaceMember

This table contains member interface information in redundancy interface.

XML structure

```
<RDDC>
  <RedundancyInterfaceMember>
    <MemberInterface>
      <IfIndex></IfIndex>
      <MemberIfIndex></MemberIfIndex>
      <Priority></Priority>
      <ActiveStatus></ActiveStatus>
      <HoldStatus></HoldStatus>
    </MemberInterface>
  </RedundancyInterfaceMember>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyInterfaceMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 3 Ethernet interface Layer 3 aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.
MemberIfIndex	Member interface index.	Index	Unsigned integer.	N/A
Priority	Priority of the member interface	N/A	Unsigned integer. Value range: 1 to 255.	The higher the value, the greater the priority.

Column name	Column description	Column type	Data type and restrictions	Remarks
ActiveStatus	Active status of member interface	N/A	Enumeration: 0—Inactive. 1—Active.	N/A
HoldStatus	Hold status of member interface	N/A	Enumeration: 0—Absent. 1—Normal.	N/A

RDDC/RedundancyGroup

This table contains redundancy group information.

XML structure

```

<RDDC>
  <RedundancyGroup>
    <Group>
      <GroupName></GroupName>
      <PreemptDelay></PreemptDelay>
      <HoldDownInterval></HoldDownInterval>
      <HoldDownTimeRemained></HoldDownTimeRemained>
      <PreemptDelayRemained></PreemptDelayRemained>
      <SwitchoverRequest></SwitchoverRequest>
    </Group>
  </RedundancyGroup>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PreemptDelay	Preempt delay time of redundancy group node	N/A	Unsigned integer. Value range: 0 to 12 minutes.	0 means no switchover.
HoldDownInterval	Hold-down time	N/A	Unsigned integer. Value range: 0 to 1800 seconds.	0 means not to hold down in switchover.
HoldDownTimeRemained	Remained hold-down time when a switchover occurred or a failover recovery.	N/A	Unsigned integer. Value range: 0 to 1800 seconds.	N/A
PreemptDelayRemained	Preempt delay time remained when a failover recovery.	N/A	Unsigned integer. Value range: 0 to 12 minutes.	N/A
SwitchoverRequest	Whether request a switchover to the low-priority node or not.	N/A	Boolean: • true • false(default)	N/A

RDDC/RedundancyGroupMember

This table contains redundancy interface information in redundancy group.

XML structure

```

<RDDC>
  <RedundancyGroupMember>
    <MemberInterface>
      <GroupName></GroupName>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupMember>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	Only redundancy interfaces are supported.

RDDC/RedundancyFailoverGroup

This table contains failover group information in redundancy group.

XML structure

```
<RDDC>
  <RedundancyFailoverGroup>
    <FailoverGroup>
      <GroupName></GroupName>
      <FailoverGroupName></FailoverGroupName>
    </FailoverGroup>
  </RedundancyFailoverGroup>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyFailoverGroup
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
FailoverGroupUpName	Failover group name	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A

RDDC/RedundancyGroupNode

This table contains the information of redundancy group node.

XML structure

```
<RDDC>
  <RedundancyGroupNode>
    <Node>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <Priority></Priority>
      <BindChassis></BindChassis>
      <TrackWeight></TrackWeight>
      <Status></Status>
    </Node>
  </RedundancyGroupNode>
</RDDC>
```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNode
Table type	Multi-instance table
Row name	Node
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
Priority	Priority of this redundancy group node	N/A	Unsigned integer. Value range: 1 to 255.	The higher the value, the greater the priority.
BindChassis	The bound chassis ID	N/A	Unsigned integer.	N/A
TrackWeight	The current weight of this redundancy group node.	N/A	Integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	The current status of this redundancy group node.	N/A	Enumeration: 1—Secondary. 2—Primary.	N/A

RDDC/RedundancyGroupTrack

This table contains track information of redundancy group node.

XML structure

```

<RDDC>
  <RedundancyGroupTrack>
    <Track>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <TrackID></TrackID>
      <ReducePriority></ReducePriority>
      <IfIndex></IfIndex>
    </Track>
  </RedundancyGroupTrack>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupTrack
Table type	Multi-instance table
Row name	Track
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.
TrackID	The track ID	Index	Unsigned integer. Value range: 1 to 1024.

Column name	Column description	Column type	Data type and restrictions
ReducePriority	Reduce priority of redundancy group node	N/A	Unsigned integer. Value range: 1 to 255.
IfIndex	Track interface index.	N/A	Unsigned integer.

RDDC/RedundancyGroupNameMember

This table contains member interface information in redundancy group node.

XML structure

```

<RDDC>
  <RedundancyGroupNameMember>
    <MemberInterface>
      <GroupName></GroupName>
      <NodeID></NodeID>
      <IfIndex></IfIndex>
    </MemberInterface>
  </RedundancyGroupNameMember>
</RDDC>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNameMember
Table type	Multi-instance table
Row name	MemberInterface
Restrictions	This table supports member interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Redundancy group name	Index	String, case-sensitive. Length: 1 to 15 characters.	N/A
NodeID	Redundancy group node ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
IfIndex	Interface index.	Index	Unsigned integer.	N/A

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WLANClient

WLANClient/ RfpingInformation

This table contains station 13n information.

XML structure

```
<WLANClient>
  <RfpingInformation>
    <RfpingTest>
      <MacAddress></MacAddress>
      <ErrCode></ErrCode>
      <StaMode></StaMode>
      <Rfping>
        <McsIdx></McsIdx>
        <Nss></Nss>
        <VhtMcsIdx></VhtMcsIdx>
        <TxRate></TxTate>
        <TxPktCnt></TxPktCnt>
        <RxPktCnt></RxPktCnt>
        <Rssi></Rssi>
        <RetryPktCnt></RetryPktCnt>
        <Rtt></Rtt>
      </Rfping>
    </RfpingTest>
  </RfpingInformation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RfpingInformation
Table type	Multi-instance table
Row name	RfpingTest
Group name	Rfping
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC Address of station	index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ErrCode	Rfping Result code	column	unsigned int 0 indicates success 1 indicates STA is offline 2 indicates RF ping conflict 3 indicates STA is sleeping 4 indicates Rf ping fail	Flag of the rfping result.
StaMode	Wireless mode	column	unsigned int . 1: 802.11b 2: 802.11a 4: 802.11g 16: 802.11gn 32: 802.11an 64: 802.11ac	N/A
McsIdx	Index of 11n-MCS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11n mode. This field belong to group of Rfping.
Nss	Index of 11ac-NSS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11ac mode. This field belong to group of Rfping.
VhtMcsIdx	Index of 11ac-VHT-MCS	column	unsigned int, range: 0-255	This field is available when the station is in 802.11ac mode. This field belong to group of Rfping.
TxRate	Transmit rate	column	unsigned int, range: 0-65535. Unit: 100Kbps.	This field belong to group of Rfping.
TxPktCnt	Transmit package count	column	unsigned int, 5 is expected.	This field belong to group of Rfping.
RxPktCnt	Received packet count	column	unsigned int, range: 0-5.	This field belong to group of Rfping.
Rssi	Received signal strength indication	column	unsigned int	This field belong to group of Rfping.
RetryPktCnt	Retried packet count	column	unsigned int, range: 0-15	This field belong to group of Rfping.

Rtt	Round trip time	column	unsigned int. Unit: ms.	This field belong to group of Rfping.
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XML structure	4
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Columns	5

RIP

RIP/Instances

This table contains RIP instances information.

XML structure

```
<RIP>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
    </Instance>
  </Instances>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	Only unsigned integer ranging from 1 to 65535 is supported now.
VRF	Vrf name.	N/A	String. Length: 1 to 31 characters.	After an instance is created, its VRF cannot be modified.

RIP/Networks

This table contains RIP network lists information.

XML structure

```
<RIP>
  <Networks>
    <Network>
      <Name></Name>
      <NetworkAddr></NetworkAddr>
      <WildcardMask></WildcardMask>
    </Network>
  </Networks>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an Instance first before you merge or create networks for it. Only unsigned integer ranging from 1 to 65535 is supported now.
NetworkAddr	Network address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

RIP/Redistributes

This table contains RIP redistribute lists information.

XML structure

```
<RIP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </Redist>
  </Redistributes>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	You must create an instance first before you merge or create redistribute lists for it. Only unsigned integer ranging from 1 to 65535 is supported now.
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct • 2—Static • 3—RIP • 4—OSPF • 5—ISIS • 6—BGP	N/A
RedistName	Redistribute instance name.	Index	String. Length: 1 to 31 characters.	It must be empty when the Protocol column is Direct, Static or BGP.

RIP/Interfaces

This table contains RIP Interfaces information.

XML structure

```
<RIP>
  <Interfaces>
    <If>
      <IfIndex></IfIndex>
      <Version></Version>
      <IfEnable>
        <Name></Name>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Input></Input>
      <Output></Output>
      <Authentication>
        <AuthType></AuthType>
        <PasswordType></PasswordType>
        <Password></Password>
        <KeyId></KeyId>
      </Authentication>
    </If>
  </Interfaces>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Interfaces
Table type	Multi-instance table
Row name	If
Restrictions	This table supports only Layer 3 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Version	Interface version.	N/A	Enumeration: 1—RIPv1 2—RIPv2 3—RIPv2 Broadcast	N/A
IfEnable	Interface enable messages.	N/A	Members include: - Name. - ExcludedSubIp.	N/A
Name	Instance name.	N/A	String. Length: 1 to 31 characters.	Only unsigned integer ranging from 1 to 65535 is supported now.
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: true—Exclude secondary IP addresses. false—Does not exclude secondary IP addresses(default).	N/A
Input	Whether to receive RIP packets.	N/A	Boolean: - true—Receive RIP packets (default). - false—Does not receive RIP packets.	N/A
Output	Whether to send RIP packets.	N/A	Boolean: - true—Send RIP packets (default). - false—Does not send RIP packets.	N/A
Authentication	Authentication messages.	N/A	Members include: - AuthType. - PasswordType. - Password. - KeyId.	The members of AuthType, PasswordType and Password must be specified. If AuthType column is Md5Rfc2082, KeyId must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthType	Authentication type.	N/A	Enumeration: • 1—Simple. • 2—Md5Rfc2082. • 3—Md5Rfc2453.	N/A
PasswordType	Password type.	N/A	Enumeration: • 1—Ciphertext. • 2—Plaintext.	N/A
Password	Password.	N/A	String. Length: • 1 to 16 characters for plain password. • 33 to 53 characters for cipher password.	N/A
KeyId	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	This column is available when the AuthType column is Md5Rfc2082. It must be empty when the AuthType column is Simple or Md5Rfc2453.

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RIP

RIP/Instances

This table contains RIP instances information.

XML structure

```
<RIP>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
    </Instance>
  </Instances>
</RIP>
```

Table description

Item	Description
Feature name	RIP
Table name	Instances
Table type	Multi-instance table
Row name	Instance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
VRF	Vrf name.	N/A	String. Length: 1 to 31 characters.	N/A

RIP/Networks

This table contains RIP network lists information.

XML structure

```
<RIP>
```

```

<Networks>
  <Network>
    <Name></Name>
    <NetworkAddr></NetworkAddr>
    <WildcardMask></WildcardMask>
  </Network>
</Networks>
</RIP>

```

Table description

Item	Description
Feature name	RIP
Table name	Networks
Table type	Multi-instance table
Row name	Network
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
NetworkAddr	Network IPv4 address.	Index	String, dotted decimal notation.	N/A
WildcardMask	Wildcard mask.	N/A	String, dotted decimal notation.	N/A

RIP/Redistributes

This table contains RIP redistribute lists information.

XML structure

```

<RIP>
  <Redistributes>
    <Redist>
      <Name></Name>
      <Protocol></Protocol>
      <RedistName></RedistName>
    </Redist>
  </Redistributes>
</RIP>

```


Table description

Item	Description
Feature name	RIP
Table name	Redistributes
Table type	Multi-instance table
Row name	Redist
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String. Length: 1 to 31 characters.	N/A
Protocol	Redistribute protocol.	Index	Enumeration: • 1—Direct • 2—Static • 3—RIP • 4—OSPF • 5—ISIS • 6—BGP	N/A
RedistName	Redistribute protocol instance name.	Index	String. Length: 1 to 31 characters.	N/A

RIP/Interfaces

This table contains RIP Interfaces information.

XML structure

```
<RIP>
  <Interfaces>
    <If>
      <IfIndex></IfIndex>
      <Version></Version>
      <IfEnable>
        <Name></Name>
        <ExcludedSubIp></ExcludedSubIp>
      </IfEnable>
      <Input></Input>
      <Output></Output>
      <Authentication>
        <AuthType></AuthType>
```

```

        <PasswordType></PasswordType>
        <Password></Password>
        <KeyId></KeyId>
    </Authentication>
</If>
</Interfaces>
</RIP>

```

Table description

Item	Description
Feature name	RIP
Table name	Interfaces
Table type	Multi-instance table
Row name	If
Restrictions	This table supports only Layer 3 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Version	Interface version.	N/A	Enumeration: 1—RIPv1 2—RIPv2 3—RIPv2 Broadcast	N/A
IfEnable	Interface enable messages.	N/A	Members include: - Name. - ExcludedSubIp.	N/A
Name	Instance name.	N/A	String. Length: 1 to 31 characters.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: true—Exclude secondary IP addresses. false—Does not exclude secondary IP addresses(default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Input	Whether to receive RIP packets.	N/A	Boolean: - true—Receive RIP packets (default). - false—Does not receive RIP packets.	N/A
Output	Whether to send RIP packets.	N/A	Boolean: - true—Send RIP packets (default). - false—Does not send RIP packets.	N/A
Authentication	Authentication messages.	N/A	Members include: - AuthType. - PasswordType. - Password. - KeyId.	N/A
AuthType	Authentication type.	N/A	Enumeration: 1—Simple. 2—Md5Rfc2082. 3—Md5Rfc2453.	N/A
PasswordType	Password type.	N/A	Enumeration: 1—Ciphertext. 2—Plaintext.	N/A
Password	Password.	N/A	String. Length: 1 to 16 characters for plain password. 33 to 53 characters for cipher password.	N/A
KeyId	Key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

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Columns	10

RMON

RMON/EtherStats

This table contains ethernet statistics information.

XML structure

```
<RMON>
  <EtherStats>
    <Statistic>
      <Index></Index>
      <DataSource></DataSource>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Statistic>
  </EtherStats>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	EtherStats
Table type	Multi-instance table
Row name	Statistic
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEtherStats in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The particular ethernet interface to be sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configured, which defined in RFC2836.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/EtherHistoryControls

This table contains ethernet history controls information.

XML structure

```

<RMON>
  <EtherHistoryControls>
    <Control>
      <Index></Index>
      <DataSource></DataSource>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </EtherHistoryControls>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxHistoryControls in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataSource	The source of the data for which historical data was sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configured, which defined in RFC2836.
BucketsRequested	The requested number of records to be saved for each interface.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxEtherHistorySamples in the data namespace.
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to 3600. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/Alarms

This table contains alarms information.

XML structure

```

<RMON>
  <Alarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <SampleType></SampleType>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEventIndex></RisingEventIndex>
      <FallingEventIndex></FallingEventIndex>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </Alarms>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	Alarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxAlarms in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 5 to 65535.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: 1—RisingAlarm. 2—FallingAlarm. 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEventIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FallingEventIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/Events

This table contains events information.

XML structure

<RMON>

```

<Events>
  <Event>
    <Index></Index>
    <Description></Description>
    <Type></Type>
    <Community></Community>
    <Owner></Owner>
    <TemporaryStatus></TemporaryStatus>
  </Event>
</Events>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	Events
Table type	Multi-instance table
Row name	Event
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEvents in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	A comment describing this event entry.	N/A	String. Length: 1 to 127 characters.	N/A
Type	The type of notification that the probe will make about this event.	N/A	Enumeration: 1—None. 2—Log. 3—SnmpTrap. 4—LogAndTrap.	N/A
Community	If an SNMP trap is to be sent, it will be sent to the SNMP community specified by this octet string.	N/A	String. Length: 1 to 127 characters.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/UsrHistoryControls

This table contains user history controls information.

XML structure

```

<RMON>
  <UsrHistoryControls>
    <Control>
      <Index></Index>
      <MaxObjects></MaxObjects>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
      </Objects>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </UsrHistoryControls>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	UsrHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entries depends on RMON/Capabilities/MaxUsrHistoryControls in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
MaxObjects	The number of objects to be sampled.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	The max number depends on RMON/Capabilities/MaxUsrHistoryObjects in the data namespace.
Objects	The objects to be sampled.	N/A	Members include: - Variable - SampleType	Multi-instance. Maximum occurrence is MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variables.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be copied directly into the history bucket. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket.
BucketsRequested	The requested number of records to be saved.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	N/A
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to $2^{31} - 1$. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/ExtAlarms

This table contains extended alarms information.

XML structure

```
<RMON>
  <ExtAlarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <Description></Description>
      <SampleType></SampleType>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEvtIndex></RisingEvtIndex>
      <FallingEvtIndex></FallingEvtIndex>
      <StatCycle></StatCycle>
      <StatType></StatType>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </ExtAlarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	ExtAlarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxExtAlarms in the data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 10 to 65535. Default: 1800.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Unsigned32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
Description	A comment describing this alarm entry.	N/A	String. Length: 1 to 127 characters.	N/A
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: 1—RisingAlarm. 2—FallingAlarm. 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.

Column name	Column description	Column type	Data type and restrictions	Remarks
RisingThreshold	A rising threshold for the sampled statistic.	N/A	Signed integer. Default: 1.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.
FallingThreshold	A falling threshold for the sampled statistic.	N/A	Signed integer. Default: 0.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
RisingEvtIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
FallingEvtIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
StatType	Type of statistic period.	N/A	Enumeration: 1—Forever. 2—During. Default: 1.	N/A
StatCycle	The lifetime starts when an alarm entry is set in valid state. Unit: second.	N/A	Unsigned integer. Value range: 0 to 4294967. Default: 0.	It must be zero when StatType is 1-Forever. Otherwise it must be greater than the value of Interval.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

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RMON

RMON/Capabilities

This table contains capabilities information.

XML structure

```
<RMON>
  <Capabilities>
    <MaxEtherStats></MaxEtherStats>
    <MaxHistoryControls></MaxHistoryControls>
    <MaxEtherHistorySamples></MaxEtherHistorySamples>
    <MaxAlarms></MaxAlarms>
    <MaxEvents></MaxEvents>
    <MaxLogs></MaxLogs>
    <MaxUsrHistoryControls></MaxUsrHistoryControls>
    <MaxUsrHistoryObjects></MaxUsrHistoryObjects>
    <MaxUsrHistorySamples></MaxUsrHistorySamples>
    <MaxExtAlarms></MaxExtAlarms>
  </Capabilities>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxEtherStats	Max number of entry in EtherStats	N/A	Unsigned integer. Value range: 1 to 65535.
MaxHistoryControls	Max number of entry in EtherHistoryControls	N/A	Unsigned integer. Value range: 1 to 65535.
MaxEtherHistorySamples	Max number of entry in EtherHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.

Column name	Column description	Column type	Data type and restrictions
MaxAlarms	Max number of entry in Alarms	N/A	Unsigned integer. Value range: 1 to 65535.
MaxEvents	Max number of entry in Events	N/A	Unsigned integer. Value range: 1 to 65535.
MaxLogs	Max number of entry in Logs	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistoryControls	Max number of entry in UsrHistoryControls	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistoryObjects	Max number of Objects group in UsrHistoryControls and UsrHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.
MaxUsrHistorySamples	Max number of entry in UsrHistorySamples	N/A	Unsigned integer. Value range: 1 to 65535.
MaxExtAlarms	Max number of entry in ExtAlarms	N/A	Unsigned integer. Value range: 1 to 65535.

RMON/EtherStats

This table contains ethernet statistics information.

XML structure

```

<RMON>
  <EtherStats>
    <Statistic>
      <Index></Index>
      <DataSource></DataSource>
      <DropEvents></DropEvents>
      <Octets></Octets>
      <Pkts></Pkts>
      <BroadcastPkts></BroadcastPkts>
      <MulticastPkts></MulticastPkts>
      <CRCAAlignErrors></CRCAAlignErrors>
      <UndersizePkts></UndersizePkts>
      <OversizePkts></OversizePkts>
      <Fragments></Fragments>
      <Jabbers></Jabbers>
      <Collisions></Collisions>
      <Pkts64Octets></Pkts64Octets>
      <Pkts65to127Octets></Pkts65to127Octets>
      <Pkts128to255Octets></Pkts128to255Octets>
      <Pkts256to511Octets></Pkts256to511Octets>
      <Pkts512to1023Octets></Pkts512to1023Octets>

```

```

    <Pkts1024to15180octets></Pkts1024to15180octets>
    <Owner></Owner>
    <TemporaryStatus></TemporaryStatus>
  </Statistic>
</EtherStats>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	EtherStats
Table type	Multi-instance table
Row name	Statistic
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEtherStats.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The particular ethernet interface to be sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configured, which defined in RFC2836.
DropEvents	The total number of events in which packets were dropped by the probe due to lack of resources.	N/A	Unsigned integer.	N/A
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts	The total number of packets (including bad packets, broadcast packets, and multicast packets) received.	N/A	Unsigned integer.	N/A
BroadcastPkts	The total number of good packets received that were directed to the broadcast address.	N/A	Unsigned integer.	N/A
MulticastPkts	The total number of good packets received that were directed to a multicast address.	N/A	Unsigned integer.	N/A
CRCAAlignErrors	The total number of packets received that had a length (excluding framing bits, but including FCS octets) between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
UndersizePkts	The total number of packets received that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OversizePkts	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A
Fragments	The total number of packets received that were less than 64 octets in length (excluding framing bits but including FCS octets) and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Jabbers	The total number of packets received that were longer than 1518 octets (excluding framing bits, but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Collisions	The best estimate of the total number of collisions on this ethernet segment.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts64Octets	The total number of packets (including bad packets) received that were 64 octets in length (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts65to127Octets	The total number of packets (including bad packets) received that were between 65 and 127 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts128to255Octets	The total number of packets (including bad packets) received that were between 128 and 255 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts256to511Octets	The total number of packets (including bad packets) received that were between 256 and 511 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Pkts512to1023Octets	The total number of packets (including bad packets) received that were between 512 and 1023 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Pkts1024to1518Octets	The total number of packets (including bad packets) received that were between 1024 and 1518 octets in length inclusive (excluding framing bits but including FCS octets).	N/A	Unsigned integer.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/EtherHistoryControls

This table contains ethernet history controls information.

XML structure

```

<RMON>
  <EtherHistoryControls>
    <Control>
      <Index></Index>
      <DataSource></DataSource>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </EtherHistoryControls>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxHistoryControls.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
DataSource	The source of the data for which historical data was sampled.	N/A	String, dotted decimal notation.	Only the instance of the ifIndex can be configured, which defined in RFC2836.
BucketsRequested	The requested number of records to be saved in RMON/EtherHistorySamples for each interface.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxEtherHistorySamples.
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to 3600. Default: 1800.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/EtherHistorySamples

This table contains ethernet historical samples information.

XML structure

```
<RMON>
  <EtherHistorySamples>
```

```

<Sample>
  <ControlIndex></ControlIndex>
  <SampleIndex></SampleIndex>
  <IntervalStart></IntervalStart>
  <DropEvents></DropEvents>
  <Octets></Octets>
  <Pkts></Pkts>
  <BroadcastPkts></BroadcastPkts>
  <MulticastPkts></MulticastPkts>
  <CRCAAlignErrors></CRCAAlignErrors>
  <UndersizePkts></UndersizePkts>
  <OversizePkts></OversizePkts>
  <Fragments></Fragments>
  <Jabbers></Jabbers>
  <Collisions></Collisions>
  <Utilization></Utilization>
</Sample>
</EtherHistorySamples>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	EtherHistorySamples
Table type	Multi-instance table
Row name	Sample
Restrictions	The max number of entrys depends on both RMON/Capabilities/MaxHistoryControls and RMON/Capabilities/MaxEtherHistorySamples.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControllIndex	The controls index.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SampleIndex	The samples index.	Index	Unsigned integer. Value range: 1 to $2^{31} - 1$.	This index starts at 1 and increases by one as each new sample is taken.
IntervalStart	Time at the start of the interval over which this sample was measured. Unit: second.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.

Column name	Column description	Column type	Data type and restrictions	Remarks
DropEvents	The total number of events in which packets were dropped by the probe due to lack of resources during this sampling interval.	N/A	Unsigned integer.	N/A
Octets	The total number of octets of data (including those in bad packets) received on the network (excluding framing bits but including FCS octets) during this sampling interval.	N/A	Unsigned integer.	N/A
Pkts	The total number of packets (including bad packets) received during this sampling interval.	N/A	Unsigned integer.	N/A
BroadcastPkts	The total number of good packets received during this sampling interval that were directed to the broadcast address.	N/A	Unsigned integer.	N/A
MulticastPkts	The total number of good packets received during this sampling interval that were directed to a multicast address.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CRCAAlignErrors	The number of packets received during this sampling interval that had a length (excluding framing bits but including FCS octets) between 64 and 1518 octets, inclusive, but had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
UndersizePkts	The number of packets received during this sampling interval that were less than 64 octets long (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A
OversizePkts	The number of packets received during this sampling interval that were longer than 1518 octets (excluding framing bits, but including FCS octets) and were otherwise well formed.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fragments	The total number of packets received during this sampling interval that were less than 64 octets in length (excluding framing bits but including FCS octets) had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Jabbers	The number of packets received during this sampling interval that were longer than 1518 octets (excluding framing bits but including FCS octets), and had either a bad Frame Check Sequence (FCS) with an integral number of octets (FCS Error) or a bad FCS with a non-integral number of octets (Alignment Error).	N/A	Unsigned integer.	N/A
Collisions	The best estimate of the total number of collisions on this ethernet segment during this sampling interval.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Utilization	The best estimate of the mean physical layer network utilization on this interface during this sampling interval. Unit: percent.	N/A	Unsigned integer. Value range: 0 to 100.	N/A

RMON/Alarms

This table contains alarms information.

XML structure

```

<RMON>
  <Alarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <SampleType></SampleType>
      <Value></Value>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEventIndex></RisingEventIndex>
      <FallingEventIndex></FallingEventIndex>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </Alarms>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	Alarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxAlarms.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 5 to 65535.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
Value	The value of the statistic during the last sampling period.	N/A	Signed integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: 1—RisingAlarm. 2—FallingAlarm. 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEventIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
FallingEventIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/Events

This table contains events information.

XML structure

<RMON>

```

<Events>
  <Event>
    <Index></Index>
    <Description></Description>
    <Type></Type>
    <Community></Community>
    <LastTimeSent></LastTimeSent>
    <Owner></Owner>
    <TemporaryStatus></TemporaryStatus>
  </Event>
</Events>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	Events
Table type	Multi-instance table
Row name	Event
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxEvents.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Description	A comment describing this event entry.	N/A	String. Length: 1 to 127 characters.	N/A
Type	The type of notification that the probe will make about this event.	N/A	Enumeration: 1—None. 2—Log. 3—SnmpTrap. 4—LogAndTrap.	N/A
Community	If an SNMP trap is to be sent, it will be sent to the SNMP community specified by this octet string.	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LastTimeSent	Time at the time this event entry last generated an event. Unit: second	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/Logs

This table contains logs information.

XML structure

```

<RMON>
  <Logs>
    <Log>
      <EventIndex></EventIndex>
      <LogIndex></LogIndex>
      <Time></Time>
      <Description></Description>
    </Log>
  </Logs>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	Logs
Table type	Multi-instance table
Row name	Log
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxLogs.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EventIndex	The event index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
LogIndex	The log index	Index	Unsigned integer. Value range: 1 to $2^{31} - 1$.	N/A
Time	Time when this log entry was created.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Description	An implementation dependent description of the event that activated this log entry.	N/A	String. Length: 1 to 255 characters.	N/A

RMON/UsrHistoryControls

This table contains user history controls information.

XML structure

```

<RMON>
  <UsrHistoryControls>
    <Control>
      <Index></Index>
      <MaxObjects></MaxObjects>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
      </Objects>
      <BucketsRequested></BucketsRequested>
      <Interval></Interval>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Control>
  </UsrHistoryControls>
</RMON>

```

Table description

Item	Description
Feature name	RMON

Item	Description
Table name	UsrHistoryControls
Table type	Multi-instance table
Row name	Control
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxUsrHistoryControls.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
MaxObjects	The number of objects to be sampled.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	The max number depends on RMON/Capabilities/MaxUsrHistoryObjects.
Objects	The objects to be sampled.	N/A	Members include: - Variable - SampleType	Multi-instance. Maximum occurrence is MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of Integer32 (Integer32, Counter, Gauge, or TimeTicks) may be sampled.
SampleType	The method of sampling the selected variables.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue. - Default: DeltaValue	For AbsoluteValue, the value of the selected variable will be copied directly into the history bucket. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference will be stored in the history bucket.
BucketsRequested	The requested number of records to be saved in RMON/UsrHistorySamples.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 50.	N/A
Interval	The sample interval. Unit: second.	N/A	Unsigned integer. Value range: 1 to $2^{31} - 1$. Default: 1800.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

RMON/UsrHistorySamples

This table contains user history samples information.

XML structure

```

<RMON>
  <UsrHistorySamples>
    <Sample>
      <ControlIndex></ControlIndex>
      <SampleIndex></SampleIndex>
      <IntervalStart></IntervalStart>
      <IntervalEnd></IntervalEnd>
      <Objects>
        <Variable></Variable>
        <SampleType></SampleType>
        <AbsValue></AbsValue>
        <ValStatus></ValStatus>
      </Objects>
    </Sample>
  </UsrHistorySamples>
</RMON>

```

Table description

Item	Description
Feature name	RMON
Table name	UsrHistorySamples
Table type	Multi-instance table
Row name	Sample
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxUsrHistoryControls, RMON/Capabilities/MaxUsrHistoryObjects and RMON/Capabilities/MaxUsrHistorySamples.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlIndex	The controls index.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
SampleIndex	The samples index.	Index	Unsigned integer. Value range: 1 to 2147483647.	This index starts at 1 and increases by one as each new sample is taken.
IntervalStart	Time at the start of the interval over which this sample was measured.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
IntervalEnd	Time at the end of the interval over which this sample was measured.	N/A	Unsigned integer.	It represents the times elapsed after the device started up.
Objects	The objects which was sampled.	N/A	Members include: - Variable - SampleType - Value - ValStatus	Multi-instance. Maximum occurrence is RMON/UsrHistoryControls/Control/MaxObjects.
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	N/A
SampleType	The method of sampling the selected variables.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AbsValue	The absolute value (i.e., unsigned value) of the user-specified statistic during the last sampling period.	N/A	Unsigned integer.	The value during the current sampling period is not made available until the period is completed. To obtain the true value for this sampling interval, the associated instance of ValStatus must be checked, and AbsValue adjusted as necessary. If the MIB instance could not be accessed during the sampling interval, then this object will have a value of zero, and the associated instance of ValStatus will be set to NotAvailable. The access control check prescribed in the definition of RMON/UsrHistoryControls/Control/Objects/Variable SHOULD be checked for each sampling interval. If this check determines that access should not be allowed, then this object will have a value of zero, and the associated instance of ValStatus will be set to NotAvailable.
ValStatus	Validity and sign of the data.	N/A	Enumeration: 1—NotAvailable. 2—Positive. 3—Negative.	If the MIB instance could not be accessed during the sampling interval, then NotAvailable will be returned. If the sample is valid and the actual value of the sample is greater than or equal to zero, then Positive is returned. If the sample is valid and the actual value of the sample is less than zero, Negative will be returned. The associated instance of AbsValue should be multiplied by -1 to obtain the true sample value.

RMON/ExtAlarms

This table contains extended alarms information.

XML structure

```
<RMON>
  <ExtAlarms>
    <Alarm>
      <Index></Index>
      <Interval></Interval>
      <Variable></Variable>
      <Description></Description>
      <SampleType></SampleType>
      <Value></Value>
      <StartupAlarm></StartupAlarm>
      <RisingThreshold></RisingThreshold>
      <FallingThreshold></FallingThreshold>
      <RisingEvtIndex></RisingEvtIndex>
      <FallingEvtIndex></FallingEvtIndex>
      <StatCycle></StatCycle>
      <StatType></StatType>
      <Owner></Owner>
      <TemporaryStatus></TemporaryStatus>
    </Alarm>
  </ExtAlarms>
</RMON>
```

Table description

Item	Description
Feature name	RMON
Table name	ExtAlarms
Table type	Multi-instance table
Row name	Alarm
Restrictions	The max number of entrys depends on RMON/Capabilities/MaxExtAlarms.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Entry index	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Interval	The interval over which the data is sampled and compared with the rising and falling thresholds. Unit: second.	N/A	Unsigned integer. Value range: 10 to 65535. Default: 1800.	N/A
Variable	The object identifier of the particular variable to be sampled.	N/A	String, dotted decimal notation.	Only variables that resolve to an ASN.1 primitive type of INTEGER (INTEGER, Integer32, Unsigned32, Counter32, Counter64, Gauge, or TimeTicks) may be sampled.
Description	A comment describing this alarm entry.	N/A	String. Length: 1 to 127 characters.	N/A
SampleType	The method of sampling the selected variable and calculating the value to be compared against the thresholds.	N/A	Enumeration: 1—AbsoluteValue. 2—DeltaValue.	For AbsoluteValue, the value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. For DeltaValue, the value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.
Value	The value of the statistic during the last sampling period.	N/A	Signed integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartupAlarm	The alarm that may be sent when this entry is first set to valid.	N/A	Enumeration: 1—RisingAlarm. 2—FallingAlarm. 3—RisingOrFallingAlarm.	If the first sample after this entry becomes valid is greater than or equal to the RisingThreshold and StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm, then a single rising alarm will be generated. If the first sample after this entry becomes valid is less than or equal to the FallingThreshold and StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm, then a single falling alarm will be generated.
RisingThreshold	A rising threshold for the sampled statistic.	N/A	Signed integer. Default: 1.	When the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is greater than or equal to this threshold and the associated StartupAlarm is equal to RisingAlarm or RisingOrFallingAlarm. After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the FallingThreshold.

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A falling threshold for the sampled statistic.	N/A	Signed integer. Default: 0.	When the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was greater than this threshold, a single event will be generated. A single event will also be generated if the first sample after this entry becomes valid is less than or equal to this threshold and the associated StartupAlarm is equal to FallingAlarm or RisingOrFallingAlarm. After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the RisingThreshold.
RisingEvtIndex	The index in RMON/Events that is used when a rising threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
FallingEvtIndex	The index in RMON/Events that is used when a falling threshold is crossed.	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	If there is no corresponding entry in RMON/Events, then no association exists. In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.
StatType	Type of statistic period.	N/A	Enumeration: 1—Forever. 2—During. Default: 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StatCycle	The lifetime starts when an alarm entry is set in valid state. Unit: second.	N/A	Unsigned integer. Value range: 0 to 4294967. Default: 0.	It must be zero when StatType is 1-Forever. Otherwise it must be greater than the value of Interval.
Owner	The entity that configured this entry.	N/A	String. Length: 1 to 127 characters.	N/A
TemporaryStatus	The status of this entry.	N/A	Boolean: true false	N/A

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XML structure	1
Table description	1
Columns	1
Route/Ipv6BandwidthBasedSharing	1
XML structure	1
Table description	2
Columns	2

Route

Route/Ipv4BandwidthBasedSharing

This table contains IPv4 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv4BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv4BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv4 bandwidth-based load sharing mode.	N/A	Enumeration: 0—Disabled(default). 1—Enabled.	N/A

Route/Ipv6BandwidthBasedSharing

This table contains IPv6 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv6BandwidthBasedSharing>
```



```

    <Mode></Mode>
  </Ipv6BandwidthBasedSharing>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv6BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv6 bandwidth-based load sharing mode.	N/A	Enumeration: 0—Disabled(default). 1—Enabled.	N/A

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XML structure	8
Table description	8
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XML structure	9
Table description	10
Columns	10
Route/Ipv4RouteECMPNumbers	10
XML structure	10
Table description	11
Columns	11
Route/Ipv6RouteECMPNumbers	11
XML structure	12
Table description	12
Columns	12
Route/Ipv4BandwidthBasedSharing	13
XML structure	13
Table description	13
Columns	13
Route/Ipv6BandwidthBasedSharing	13
XML structure	13
Table description	14
Columns	14

Route

Route/Ipv4Routes

This table contains IPv4 route information.

XML structure

```
<Route>
  <Ipv4Routes>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
      </BackupPathAttribute>
    </RouteEntry>
  </Ipv4Routes>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4	Destination IPv4 prefix.	Data structure	Members include: - Ipv4Address. - Ipv4PrefixLength.	The two members must both be specified. Support filter, for more information, see Table 1
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
Nexthop	Nexthop IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: 0—Disable. 1—Enable.	Get all routes from private network while index "VRF" is Null and "AllVRF" is Enable.
Protocol	Routing protocol.	Data structure	Members include: - ProtocolID. - SubProtocolID.	N/A
ProtocolID	Routing protocol	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ID.		• 1—DIRECT. • 2—STATIC. • 3—RIP. • 4—OSPF. • 5—IS-IS. • 6—BGP. • 7—LISP. • 8—EIGRP -	
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer. Unit is second.	N/A
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ASNumber	Autonomy system.	Data structure	Members include: • OriginAS. • LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: • BackupIfIndex. • BackupNextHop.	N/A
BackupIfIndex	Backup interface index.	N/A	• Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNextHop	Backup next-hop IPv4 address.	N/A	• String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.

Table 1 Route filter Type

Filter	Description	Example
Ip-address	Use ip-address to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP 1.1.1.1"> <RouteEntry base:filter="vrf vpn1 IP 1.1.1.1">
Ip-address longer	Use ip-address to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP 1.1.1.1 longer"> <RouteEntry base:filter="vrf vpn1 IP 1.1.1.1 longer">
Ip-address MaskLen	Use ip-address MaskLen to get matched route entries. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP 1.1.1.0 MaskLen 24"> <RouteEntry base:filter="vrf vpn1 IP 1.1.1.0 MaskLen 24">
Ip-address MaskLen Longer	Use ip-address MaskLen to get the route entry with the longest mask. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP 1.1.1.0 MaskLen 24 longer"> <RouteEntry base:filter="vrf vpn1 IP 1.1.1.0 MaskLen 24 longer">
Ip-address 1 to Ip-address 2	Use ip-address1 to ip-address2 to get information about routes to a range of destination. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="IP 1.1.1.0 to 10.1.1.1"> <RouteEntry base:filter="vrf vpn1 IP 1.1.1.0 to 10.1.1.1">
Prefix-List	Use prefix-list to get Routes permitted by an IP prefix list. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="Prefix-List aaa"> <RouteEntry base:filter="vrf vpn1 Prefix-List aaa">
ACL	Use acl to get routes permitted by a basic ACL. Vrf keyword is not specified in the public network.	<RouteEntry base:filter="ACL 2000"> <RouteEntry base:filter="vrf vpn1 ACL 2000">

Route/Ipv6Routes

This table contains IPv6 route information.

XML structure

```
<Route>
  <Ipv6Routes>
    <RouteEntry>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <Nexthop></Nexthop>
      <IfIndex></IfIndex>
      <AllVRF></AllVRF>
      <Protocol>
        <ProtocolID></ProtocolID>
        <SubProtocolID></SubProtocolID>
      </Protocol>
      <ProcessID></ProcessID>
      <Age></Age>
      <Preference></Preference>
      <Metric></Metric>
      <Tag></Tag>
      <Neighbor></Neighbor>
      <ASNumber>
        <OriginAS></OriginAS>
        <LastAS></LastAS>
      </ASNumber>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthop></BackupNexthop>
      </BackupPathAttribute>
    </RouteEntry>
  </Ipv6Routes>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6Routes
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Prefix	Destination IPv6 prefix.	Data structure	Members include: - Ipv6Address. - Ipv6PrefixLength.	The two members must both be specified. Support filter, for more information, see Table 2
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
Nexthop	Nexthop IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.
IfIndex	Interface index.	index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
AllVRF	All VRF routing tables.	N/A	Enumeration: 0—Disable. 1—Enable.	Get all routes from private network while index "VRF" is Null and "AllVRF" is Enable.
Protocol	Routing protocol.	Data structure	Members include: - ProtocolID. - SubProtocolID.	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: 1—DIRECT. 2—STATIC. 3—RIPng. 4—OSPFv3. 5—IS-ISv6. 6—BGP4+.	N/A
SubProtocolID	Routing sub-protocol ID.	N/A	Unsigned integer.	N/A
ProcessID	Process ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Age	Route alive time.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit is second.	
Preference	Route preference.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Metric	Route metric.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Tag	Route tag.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
Neighbor	Neighbor.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1.
ASNummer	Autonomy system.	Data structure	Members include: - OriginAS. - LastAS.	N/A
OriginAS	Original AS.	N/A	Unsigned integer.	N/A
LastAS	Last AS.	N/A	Unsigned integer.	N/A
BackupPathAttribute	Backup path attribute.	Data structure	Members include: - BackupIfIndex. - BackupNexthop.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthop	Backup nexthop IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:2::1. 0::0 is an invalid value.

Table 2 Route filter Type

Filter	Description	Example
Ipv6-address	Use ipv6-address to get matched route entries.	<RouteEntry base:filter="IPv6 1::1"> <RouteEntry base:filter="vrf vpn2 IPv6 1::1">
Ipv6-address longer	Use ipv6-address to get the route entry with the longest prefix.	<RouteEntry base:filter="IPv6 1::1 longer"> <RouteEntry base:filter="vrf vpn2 IPv6 1::1 longer">
Ipv6-address PrefixLen	Use ipv6-address PrefixLen to get matched route entries.	<RouteEntry base:filter="IPv6 1:: PrefixLen 64"> <RouteEntry base:filter="vrf vpn2 IPv6 1:: PrefixLen 64">
Ipv6-address PrefixLen Longer	Use ipv6-address PrefixLen to get the route entry with the	<RouteEntry base:filter="IPv6 1:: PrefixLen 64 longer"> <RouteEntry base:filter="vrf vpn2 IPv6 1:: PrefixLen 64 longer">

	longest prefix.	
IPv6-address 1 to IPv6-address 2	Use IPv6-address1 to IPv6-address2 to get information about routes to a range of destination.	<RouteEntry base:filter="IPv6 1::1 to 10::1"> <RouteEntry base:filter="vrf vpn2 IPv6 1::1 to 10::1">
Prefix-List	Use prefix-list to get routes permitted by an IPv6 prefix list.	<RouteEntry base:filter="Prefix-List aaa"> <RouteEntry base:filter="vrf vpn2 Prefix-List aaa">
ACL	Use acl to get routes permitted by an IPv6 basic ACL.	<RouteEntry base:filter="ACL 2000"> <RouteEntry base:filter="vrf vpn2 ACL 2000">

Route/Ipv4RouteStatistics

This table contains IPv4 route statistic information.

XML structure

```

<Route>
  <Ipv4RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv4RouteStatistics>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • 1—DIRECT. • 2—STATIC. • 3—RIP. • 4—OSPF. • 5—IS-IS. • 6—BGP. • 7—LISP. • 8—EIGRP	N/A
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Route/Ipv6RouteStatistics

This table contains IPv6 route statistic information.

XML structure

```

<Route>
  <Ipv6RouteStatistics>
    <Statistics>
      <VRF></VRF>
      <Topology></Topology>
      <ProtocolID></ProtocolID>
      <TotalRoutes></TotalRoutes>
      <ActiveRoutes></ActiveRoutes>
      <AddedRoutes></AddedRoutes>
      <DeletedRoutes></DeletedRoutes>
    </Statistics>
  </Ipv6RouteStatistics>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RouteStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
ProtocolID	Route protocol ID.	index	Enumeration: • 1—DIRECT. • 2—STATIC. • 3—RIPng. • 4—OSPFv3. • 5—IS-ISv6. • 6—BGP4+. • 7—LISP. • 8—EIGRPv6.	N/A
TotalRoutes	Total route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
ActiveRoutes	Active route number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
AddedRoutes	Added routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
DeletedRoutes	Deleted routes number.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

Route/Ipv4RouteECMPNumbers

This table contains IPv4 route ECMP numbers.

XML structure

```
<Route>
  <Ipv4RouteECMPNumbers>
```

```

<RouteECMPNumber>
  <VRF></VRF>
  <Topology></Topology>
  <Ipv4>
    <Ipv4Address></Ipv4Address>
    <Ipv4PrefixLength></Ipv4PrefixLength>
  </Ipv4>
  <ECMPNumber></ECMPNumber>
</RouteECMPNumber>
</Ipv4RouteECMPNumbers>
</Route>

```

Table description

Item	Description
Feature name	Route
Table name	Ipv4RouteECMPNumbers
Table type	Multi-instance table
Row name	RouteECMPNumber
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv4	Destination IPv4 prefix.	Data structure	Members include: - Ipv4Address. - Ipv4PrefixLength.	The two members must both be specified.
Ipv4Address	Destination IPv4 address.	index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	index	Unsigned integer. Value range: 0 to 32.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv6RouteECMPNumbers

This table contains IPv6 route ECMP numbers.

XML structure

```
<Route>
  <Ipv6RouteECMPNumbers>
    <RouteECMPNumber>
      <VRF></VRF>
      <Topology></Topology>
      <Ipv6Prefix>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </Ipv6Prefix>
      <ECMPNumber></ECMPNumber>
    </RouteECMPNumber>
  </Ipv6RouteECMPNumbers>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6RouteECMPNumbers
Table type	Multi-instance table
Row name	RouteECMPNumber
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Destination VRF.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes public network.
Topology	Destination topology.	index	String, case-sensitive. Length: 0 to 31 characters.	Null denotes default topology.
Ipv6Prefix	Destination IPv6 prefix.	Data structure	Members include: - Ipv6Address. - Ipv6PrefixLength.	The two members must both be specified.
Ipv6Address	Destination IPv6 address.	index	Hexadecimal string, colon-separated.	Example: 1:2::1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	index	Unsigned integer. Value range: 0 to 128.	N/A
ECMPNumber	Number of ECMP Nexthops.	N/A	Unsigned integer. The value range varies by device model.	N/A

Route/Ipv4BandwidthBasedSharing

This table contains IPv4 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv4BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv4BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv4BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv4 bandwidth-based load sharing mode.	N/A	Enumeration: 0—Disabled. 1—Enabled.	N/A

Route/Ipv6BandwidthBasedSharing

This table contains IPv6 bandwidth-based load sharing information.

XML structure

```
<Route>
  <Ipv6BandwidthBasedSharing>
    <Mode></Mode>
  </Ipv6BandwidthBasedSharing>
</Route>
```

Table description

Item	Description
Feature name	Route
Table name	Ipv6BandwidthBasedSharing
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	IPv6 bandwidth-based load sharing mode.	N/A	Enumeration: • 0—Disabled. • 1—Enabled.	N/A

Contents

RoutePolicy	1
RoutePolicy/IPv4Prefix	1
XML structure	1
Table description	1
Columns	1
RoutePolicy/Policy	2
XML structure	2
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Columns	3
RoutePolicy/ExtcommunityList	6
XML structure	6
Table description	7
Columns	7
RoutePolicy/CommunityList	7
XML structure	7
Table description	8
Columns	8
RoutePolicy/TagList	9
XML structure	9
Table description	9
Columns	10

RoutePolicy

RoutePolicy/IPv4Prefix

This table contains RoutePolicy IPv4 prefix information.

XML structure

```
<RoutePolicy>
  <IPv4PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv4PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv4PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: 0—permit.	Perform create or replace operation,

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—deny.	Mode can't be empty. Perform Merge operation to create a row, Mode can't be empty. Not support delete or remove operation.
Ipv4Address	IPv4 address.		IPv4: String, dotted decimal notation.	IPv4 example: 1.1.1.1 Perform create or replace operation, Ipv4Address can't be empty. Perform Merge operation to create a row, Ipv4Address can't be empty. Not support delete or remove operation.
Ipv4PrefixLength	Mask length of IP address.		Unsigned integer. Value range: 0 to 32.	Perform create or replace operation, Ipv4PrefixLength can't be empty. Perform Merge operation to create a row, Ipv4PrefixLength can't be empty. Not support delete or remove operation.
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. Value range: 0 to 32.	Ipv4PrefixLength <= MinPrefixLength <= MaxPrefixLength
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. Value range: 0 to 32.	Ipv4PrefixLength <= MinPrefixLength <= MaxPrefixLength

RoutePolicy/Policy

This table contains RoutePolicy policy information.

XML structure

```

<RoutePolicy>
  <Policy>
    <Entry>
      <PolicyName></PolicyName>
      <Index></Index>
      <Mode></Mode>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <ExtcommunityList></ExtcommunityList>
      </Match>
    </Entry>
  </Policy>
</RoutePolicy>

```

```

    <Tag></Tag>
    <Interface></Interface>
    <RouteType></RouteType>
    <TagList></TagList>
  </Match>
  <MatchCommunityList>
    <List></List>
    <WholeMatch></WholeMatch>
  </MatchCommunityList>
  <Apply>
    <ExtCommunityRtValue></ExtCommunityRtValue>
    <ExtCommunityRtType></ExtCommunityRtType>
    <VpnPeerId></VpnPeerId>
    <CostValue></CostValue>
    <CostMode></CostMode>
    <LocalPreference></LocalPreference>c
  </Apply>
  <ApplyIpv4NextHop>
    <NextHopAddr></NextHopAddr>
    <Public></Public>
    <VrfName></VrfName>
  </ApplyIpv4NextHop>
</Entry>
</Policy>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Policy
Table type	Multi-instance table
Row name	Entry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of route policy.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Operation type of Route Policy.		Enumeration: 0—permit. 1—deny.	Perform create or replace operation, Mode can't be empty. Perform Merge operation to create a row, Mode can't be empty. Not support delete or remove operation.
Match	If match condition.	Data structure	Members include: - AddressPrefixList. - ExtcommunityList - Tag - Interface - RouteType - TagList	N/A
IPv4AddressPrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		Unsigned integer. Value range: 1 to 65535.	Repeat supported for 32 times.
Tag	Match IGP routes with specified tag		Unsigned integer. Value range: 0 to 4294967295	N/A
Interface	Match routes with specified Interface.		Interface name: String, interface type and interface number. Interface index: Unsigned integer. Length: 32 bits.	Support interface name or interface index. Repeat supported for 16 times.
RouteType	Match route type.		Enumeration: 1—internal. 2—external-type1or2. 3—external-type1. 4—external-type2. 5—nssa-external-type1or2. 6—nssa-external- type1. 7—nssa-external- type2. 8—is-is-level-1. 9—is-is-level-2. 10—bgp-evpn-mac-ip. 11—bgp-evpn-imet. 12—bgp-evpn-ip-prefix.	Repeat supported for 14 times. One route type cannot be configured twice in one command.

Column name	Column description	Column type	Data type and restrictions	Remarks
			13—eigrp-internal. 14—eigrp-external.	
TagList	Match IGP routes with the specified tag list.		Unsigned integer. Value range: 1 to 65535.	N/A
MatchCommunityList	If match communitylist condition.	Data structure	Members include: - List. - WholeMatch	Repeat supported for 32 times.
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	List name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: 0—Disable. 1—Enable.	Not supported when specifying an advanced community list number.
Apply	Apply action.	Data structure	Members include: - ExtCommunityRtValue. - ExtCommunityRtType. - VpnPeerId - CostValue. - CostMode. - LocalPreference.	N/A
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for Get and Get-Bulk action.
ExtCommunityRtType	The Ext Community RT additive type.		Enumeration: 1—Additive. 2—Replace.	N/A
VpnPeerId	Set vpn-peer-id		Unsigned integer. Value range: 1 to 134217727	N/A
CostValue	Route cost value		Unsigned integer. Value range: 0 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CostMode	Route cost change mode.		Enumeration: 0—Update. 1—Increase. 2—Decrease.	N/A
LocalPreference	BGP route local preference		Unsigned integer. Value range: 0 to 4294967295	N/A
ApplyIpv4NextHop	Specify next hop.	Data structure	Members include: - NextHopAddr. - Public. - VrfName.	N/A
NextHopAddr	Specify next hop address, x.x.x.x Ip-address.		IPv4: String, dotted decimal notation.	N/A
Public	Public network.		Enumeration: 0—Not configured. 1—Configured.	N/A
VrfName	VPN instance name.		String. Length: 0 to 31 characters.	An empty string indicates the public network.

RoutePolicy/ExtcommunityList

This table contains RoutePolicy extcommunity list information.

XML structure

```

<RoutePolicy>
  <ExtcommunityList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <So0></So0>
    </List>
  </ExtcommunityList>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	ListNum	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: • 0—permit. • 1—deny.	N/A
Rt	Route-target		String. Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO configuration.
SoO	Site-of-Origin		String. Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with Rt configuration.

RoutePolicy/CommunityList

This table contains RoutePolicy community list information.

XML structure

```
<RoutePolicy>
```



```

<CommunityList>
  <List>
    <ListName></ListName>
    <Level></Level>
    <Index></Index>
    <Mode></Mode>
    <CommunityNumber></CommunityNumber>
    <CommunityAttr></CommunityAttr>
    <RegularExpression></RegularExpression>
  </List>
</CommunityList>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	CommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	Community list number: Unsigned integer. Value range: Basic:1 to 99. Advanced:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	Community list name cannot be all made up of numbers.
Level	List level.	Index	Enumeration: 1—Basic. 2—Advanced.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: 0—permit. 1—deny.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr. Only supported for basic community list.
CommunityAttr	Community attribute.		Enumeration: 1—Internet. 2—No-advertise. 3—no-export. 4—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber. Only supported for basic community list.
RegularExpression	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10 Only supported for advanced community list.

RoutePolicy/TagList

This table contains RoutePolicy tag list information.

XML structure

```

<RoutePolicy>
  <TagList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <TagValue></TagValue>
    </List>
  </TagList>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TagList
Table type	Multi-instance table
Row name	List
Restrictions	None
Support for row creation and	Yes

deletion	
----------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of tag list		Enumeration: • 0—permit. • 1—deny.	N/A
TagValue	Tag value		Unsigned integer. Value range: 0 to 4294967295.	Repeat supported for 32 times.

Contents

RoutePolicy	1
RoutePolicy/IPv4Prefix	1
XML structure	1
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Columns	1
RoutePolicy/Policy	2
XML structure	2
Table description	3
Columns	3
RoutePolicy/ExtcommunityList	5
XML structure	6
Table description	6
Columns	6
RoutePolicy/CommunityList	7
XML structure	7
Table description	7
Columns	7
RoutePolicy/TagList	8
XML structure	8
Table description	9
Columns	9

RoutePolicy

RoutePolicy/IPv4Prefix

This table contains RoutePolicy IPv4 prefix information.

XML structure

```
<RoutePolicy>
  <IPv4PrefixList>
    <PrefixList>
      <PrefixListName></PrefixListName>
      <Index></Index>
      <Mode></Mode>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <MinPrefixLength></MinPrefixLength>
      <MaxPrefixLength></MaxPrefixLength>
    </PrefixList>
  </IPv4PrefixList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	IPv4PrefixList
Table type	Multi-instance table
Row name	PrefixList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixListName	Name of prefix list.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Operation type of prefix list.		Enumeration: 0—permit. 1—deny.	N/A
Ipv4Address	IPv4 address.		IPv4: String, dotted decimal	IPv4 example: 1.1.1.1

Column name	Column description	Column type	Data type and restrictions	Remarks
			notation.	
Ipv4PrefixLength	Mask length of IP address.		Unsigned integer. Value range: 0 to 32.	N/A
MinPrefixLength	Greater than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength <= MinPrefixLength <= MaxPrefixLength.
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. • Value range: 0 to 32.	Ipv4PrefixLength <= MinPrefixLength <= MaxPrefixLength.

RoutePolicy/Policy

This table contains RoutePolicy policy information.

XML structure

```

<RoutePolicy>
  <Policy>
    <Entry>
      <PolicyName></PolicyName>
      <Index></Index>
      <Mode></Mode>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <ExtcommunityList></ExtcommunityList>
        <Tag></Tag>
        <Interface></Interface>
        <RouteType></RouteType>
        <TagList></TagList>
      </Match>
      <MatchCommunityList>
        <List></List>
        <WholeMatch></WholeMatch>
      </MatchCommunityList>
      <Apply>
        <ExtCommunityRtValue></ExtCommunityRtValue>
        <ExtCommunityRtType></ExtCommunityRtType>
        <VpnPeerId></VpnPeerId>
        <CostValue></CostValue>
        <CostMode></CostMode>
        <LocalPreference></LocalPreference>
      </Apply>
      <ApplyIpv4NextHop>
        <NextHopAddr></NextHopAddr>
        <Public></Public>
        <VrfName></VrfName>
      </ApplyIpv4NextHop>
    </Entry>
  </Policy>
</RoutePolicy>

```

```

        </ApplyIpv4NextHop>
    </Entry>
</Policy>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	Policy
Table type	Multi-instance table
Row name	Entry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of route policy.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Index	Node.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Mode	Operation type of Route Policy.		Enumeration: 0—permit. 1—deny.	N/A
Match	If match condition.	Data structure	Members include: - AddressPrefixList. - ExtcommunityList - Tag - Interface - RouteType - TagList	N/A
IPv4AddressPrefixList	Match IPv4 address using prefix list.		String, case-sensitive. Length: 1 to 63 characters.	N/A
ExtcommunityList	Match BGP routes whose extended community attribute matches a specified extended community list		Unsigned integer. Value range: 1 to 65535.	Repeat supported for 32 times.
Tag	Match IGP routes with specified tag		Unsigned integer. Value range: 0 to 4294967295	N/A
Interface	Match routes		Interface name:	Support interface name

Column name	Column description	Column type	Data type and restrictions	Remarks
	with specified Interface.		String, interface type and interface number. Interface index: Unsigned integer. Length: 32 bits.	or interface index. Repeat supported for 16 times.
RouteType	Match route type.		Enumeration: 1—internal. 2—external-type1or2. 3—external-type1. 4—external-type2. 5—nssa-external-type1or2. 6—nssa-external-type1. 7—nssa-external-type2. 8—is-is-level-1. 9—is-is-level-2. 10—bgp-evpn-mac-ip. 11—bgp-evpn-imet. 12—bgp-evpn-ip-prefix. 13—eigrp-internal. 14—eigrp-external.	Repeat supported for 14 times. One route type cannot be configured twice in one command.
TagList	Match IGP routes with the specified tag list.		Unsigned integer. Value range: 1 to 65535.	N/A
MatchCommunityList	If match communitylist condition.	Data structure	Members include: - List. - WholeMatch	Repeat supported for 32 times.
List	Match BGP routes whose community attribute matches a specified community list.		Basic community list number: Unsigned integer. Value range:1 to 99. Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	List name cannot be all made up of numbers.
WholeMatch	Match all communities exactly.		Enumeration: 0—Disable. 1—Enable.	Not supported when specifying an advanced community list number.
Apply	Apply action.	Data structure	Members include: - ExtCommunityRtValue. - ExtCommunityRtType. - VpnPeerId - CostValue.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- CostMode. - LocalPreference.	
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 21 characters. The format is IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967295> or AS<65536-4294967295>:NN<0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for Get and Get-Bulk action.
ExtCommunityRtType	The Ext Community RT additive type.		Enumeration: 1—Additive. 2—Replace.	N/A
VpnPeerId	Set vpn-peer-id		Unsigned integer. Value range: 1 to 134217727	N/A
CostValue	Route cost value.		Unsigned integer. Value range: 0 to 4294967295	N/A
CostMode	Route cost change mode.		Enumeration: 0—Update. 1—Increase. 2—Decrease.	N/A
LocalPreference	BGP route local preference.		Unsigned integer. Value range: 0 to 4294967295	N/A
ApplyIpv4NextHop	Specify next hop.	Data structure	Members include: - NextHopAddr. - Public. - VrfName.	N/A
NextHopAddr	Specify next hop address, x.x.x.x Ip-address.		IPv4: String, dotted decimal notation.	N/A
Public	Public network.		Enumeration: 0—Not configured. 1—Configured.	N/A
VrfName	VPN instance name.		String. Length: 0 to 31 characters.	An empty string indicates the public network.

RoutePolicy/ExtcommunityList

This table contains RoutePolicy extcommunity list information.

XML structure

```
<RoutePolicy>
  <ExtcommunityList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <Rt></Rt>
      <SoO></SoO>
    </List>
  </ExtcommunityList>
</RoutePolicy>
```

Table description

Item	Description
Feature name	RoutePolicy
Table name	ExtcommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	ListNum	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of extcommunity list.		Enumeration: 0—permit. 1—deny.	N/A
Rt	Route-target		String. Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967 295> or AS<65536-4294967295>:NN< 0-65535>.	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO configuration.
SoO	Site-of-Origin		String.	Example: 101:3 or 192.168.122.15:1 or

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 3 to 21 characters. Format: IP<X.X.X.X>:NN<0-65535> or AS<0-65535>:NN<0-4294967 295> or AS<65536-4294967295>:NN< 0-65535>.	70000:3. Repeat supported for 32 times along with Rt configuration.

RoutePolicy/CommunityList

This table contains RoutePolicy community list information.

XML structure

```

<RoutePolicy>
  <CommunityList>
    <List>
      <ListName></ListName>
      <Level></Level>
      <Index></Index>
      <Mode></Mode>
      <CommunityNumber></CommunityNumber>
      <CommunityAttr></CommunityAttr>
      <RegularExpression></RegularExpression>
    </List>
  </CommunityList>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	CommunityList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListName	List name	Index	Community list number: Unsigned integer. Value range:	Community list name cannot be all made up of numbers.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Basic:1 to 99. Advanced:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	
Level	List level.	Index	Enumeration: 1—Basic. 2—Advanced.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295	N/A
Mode	Operation type of community list.		Enumeration: 0—permit. 1—deny.	N/A
CommunityNumber	Community number.		Unsigned integer. Value range: 1 to 4294967295. String. Length: 3 to 11 characters. Format: AA<0-65535>:NN<0-65535>	Example: 10 or 1:65535 Repeat supported for 32 times along with CommunityAttr. Only supported for basic community list.
CommunityAttr	Community attribute.		Enumeration: 1—Internet. 2—No-advertise. 3—no-export. 4—no-export-subconfed.	Repeat supported for 32 times along with CommunityNumber. Only supported for basic community list.
RegularExpression	Regular expression.		String. Length: 1 to 63 characters.	Example: ^10 Only supported for advanced community list.

RoutePolicy/TagList

This table contains RoutePolicy tag list information.

XML structure

```

<RoutePolicy>
  <TagList>
    <List>
      <ListNum></ListNum>
      <Index></Index>
      <Mode></Mode>
      <TagValue></TagValue>
    
```

```

    </List>
  </TagList>
</RoutePolicy>

```

Table description

Item	Description
Feature name	RoutePolicy
Table name	TagList
Table type	Multi-instance table
Row name	List
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListNum	List number	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Index	Node	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Mode	Operation type of tag list		Enumeration: 0—permit. 1—deny.	N/A
TagValue	Tag value		Unsigned integer. Value range: 0 to 4294967295.	Repeat supported for 32 times.

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RRM

RRM/ChlProntoAll

This table contains the operation to make all the radios trigger channel change at next calibration cycle.

XML structure

```
<RRM>
  <ChlProntoAll>
    <Pronto></Pronto>
  </ChlProntoAll>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlProntoAll
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Pronto	Trigger change channel at next calibration cycle	N/A	This column must be empty.	Required.

RRM/PwrProntoAll

This table contains the operation to make all the radios trigger power change at next calibration cycle.

XML structure

```
<RRM>
  <PwrProntoAll>
    <Pronto></Pronto>
  </PwrProntoAll>
```

</RRM>

Table description

Item	Description
Feature name	RRM
Table name	PwrProntoAll
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Pronto	Trigger power change at next calibration cycle	N/A	This column must be empty.	Required.

RRM/ApChlPronto

This table contains radio channel adjustment information.

XML structure

```
<RRM>
  <ChlPronto>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Pronto></Pronto>
    </Radio>
  </ChlPronto>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlPronto
Table type	Multi-instance table
Row name	Radio

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Pronto	Channel adjustment triggering	N/A	This column must be empty.	Required.

RRM/ApGroupChlPronto

This table contains AP group channel adjustment information.

XML structure

```

<RRM>
  <ApGroupChlPronto>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <Pronto></Pronto>
    </Radio>
  </ApGroupChlPronto>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlPronto
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Pronto	Channel adjustment triggering	N/A	This column must be empty.	Required.

RRM/ApBaselineSave

This table contains radio baseline saving information.

XML structure

```
<RRM>
  <BaselineSave>
    <BaselineName></BaselineName>
    <ApName></ApName>
    <RadioID></RadioID>
    <Save></Save>
  </BaselineSave>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/ApGroupBaselineSave

This table contains AP group baseline saving information.

XML structure

```

<RRM>
  <ApGroupBaselineSave>
    <BaselineName></BaselineName>
    <ApGroupName></ApGroupName>
    <ApModel></ApModel>
    <RadioID></RadioID>
    <Save></Save>
  </ApGroupBaselineSave>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupBaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadiolD	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/GlobalBaselineSave

This table contains global baseline saving information.

XML structure

```

<RRM>
  <GlobalBaselineSave>
    <BaselineName></BaselineName>
    <Save></Save>
  </GlobalBaselineSave>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	GlobalBaselineSave
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Save	Save baseline	N/A	This column must be empty.	Required.

RRM/BaselineRemove

This table contains baseline deleting information.

XML structure

```
<RRM>
  <BaselineRemove>
    <BaselineName></BaselineName>
    <Remove></Remove>
  </BaselineRemove>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineRemove
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Remove	Remove baseline	N/A	This column must be empty.	Required.

RRM/BaselineApply

This table contains baseline application information.

XML structure

```
<RRM>
  <BaselineApply>
    <BaselineName></BaselineName>
    <Apply></Apply>
  </BaselineApply>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	BaselineApply
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	N/A
Apply	Apply baseline	N/A	This column must be empty.	Required.

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RRM

RRM/ClbInterval

This table contains channel calibration interval information.

XML structure

```
<RRM>
  <ClbInterval>
    <Interval></Interval>
  </ClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Channel calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 8.

RRM/PwrClbInterval

This table contains power calibration interval information.

XML structure

```
<RRM>
  <PwrClbInterval>
    <Interval></Interval>
  </PwrClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Power calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 180. Default: 8.

RRM/ApPowerCfg

This table contains the operation to set Ap radio's adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <PowerCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </PowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PowerCfg
Table type	Multi-instance table

Item	Description
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16.	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20.	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 50 to 90.	Optional
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: 0—Disable auto power selection. 1—Enable auto power selection.	Optional

RRM/ApGroupPowerCfg

This table contains the operation to set ApGroup radios' adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```

<RRM>
  <ApGroupPowerCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </ApGroupPowerCfg>

```

</RRM>

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
ApModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16. Default value: 3.	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20. Default value: 1.	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 50 to 90. Default value: 65.	Optional
PwrCibMode	Enable/Disable auto power selection of radio	N/A	Enumeration: • 0—Disable auto power selection(default). • 1—Enable auto power selection.	Optional

RRM/ApChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically.

XML structure

```
<RRM>
  <ChannelCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
    </Radio>
  </ChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 10 to 100.	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 10 to 100.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 15 to 45.	Optional
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: • 0—Disable auto channel selection.	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Enable auto channel selection.	

RRM/ApGroupChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one ApGroup radios' current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically.

XML structure

```

<RRM>
  <ApGroupChannelCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
    </Radio>
  </ApGroupChannelCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
ApModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 10 to 100. Default value: 20.	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 10 to 100. Default value: 50.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 15 to 45. Default value: 20.	Optional
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: 0—Disable auto channel selection(default). 1—Enable auto channel selection.	Optional

RRM/ApWsaCfg

This table contains the operation to set a switch to enable radio responds to the event reported by WLAN Spectrum Analysis.

XML structure

```

<RRM>
  <ApWsaCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApWsaCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApWsaCfg
Table type	Multi-instance table
Row name	Radio

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: 0—Disable WSA collaboration . 1—Enable WSA collaboration.	Optional

RRM/ApGroupWsaCfg

This table contains information about a switch to enable one ApGroup radio collaborates with WSA automatically.

XML structure

```

<RRM>
  <ApGroupWsaCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApGroupWsaCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: 0—Disable WSA collaboration (default). 1—Enable WSA collaboration.	Optional

RRM/ClbGroupCfg

This table contains calibration group

XML structure

```

<RRM>
  <ClbGroupCfg>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCfg
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Not support creation/merge/deletion/remove

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ClbGroupMemberCfg

This table contains calibration group member

XML structure

```

<RRM>
  <ClbGroupMemberCfg>
    <ClbGroupMember>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbGroupId></ClbGroupId>
    </ClbGroupMember>
  </ClbGroupMemberCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMemberCfg
Table type	Multi-instance table
Row name	ClbGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Ap name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
Radioid	Radioid	Index	Unsigned short. Value range: 1 to 4.	N/A
ClbGroupId	Calibration group id	N/A	Unsigned integer.	N/A

RRM/ClbGroupCreate

This table contains the operation to create a calibration group.

XML structure

```
<RRM>
  <ClbGroupCreate>
    <ClbGroupId></ClbGroupId>
  </ClbGroupCreate>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCreate
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	Just support for creation

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	NA

RRM/ClbGroupDelete

This table contains the operation to delete a calibration group.

XML structure

```
<RRM>
  <ClbGroupDelete>
    <ClbGroup>
      <ClbGroupIdIndex></ClbGroupIdIndex>
      <ClbGroupIdColumn></ClbGroupIdColumn>
    </ClbGroup>
  </ClbGroupDelete>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupDelete
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for deletion/removing

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupIdIndex	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupIdColumn	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	N/A

RRM/ClbGroupMerge

This table contains the operation to merge a calibration group.

XML structure

```
<RRM>
  <ClbGroupMerge>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
    </ClbGroup>
  </ClbGroupMerge>
</RRM>
```

```

        <ChlHolddownTime></ChlHolddownTime>
        <PwrHolddownTime></PwrHolddownTime>
        <LocationName></LocationName>
    </ClbGroup>
</ClbGroupMerge>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMerge
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for merging

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440. Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ApPwrClbModeCfg

This table contains radio power calibration mode information.

XML structure

```

<RRM>
  <PwrClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
    </Radio>
  </PwrClbModeCfg>
</RRM>

```

```

        <ClbMode></ClbMode>
    </Radio>
</PwrClbModeCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: 0—Custom calibration mode. 1—Coverage calibration mode. 2—Density calibration mode.	Optional

RRM/APGroupPwrClbModeCfg

This table contains AP group power calibration mode information.

XML structure

```

<RRM>
  <ApGroupPwrClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupPwrClbModeCfg>

```

</RRM>

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • 0—Custom calibration mode (default). • 1—Coverage calibration mode. • 2—Density calibration mode.	Optional

RRM/ApChlClbModeCfg

This table contains radio channel calibration mode information.

XML structure

```
<RRM>
  <ChlClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: 0—Period calibration mode. 1—Scheduled calibration mode.	Optional

RRM/ApGroupChlClbModeCfg

This table contains AP group channel calibration mode information.

XML structure

```
<RRM>
  <ApGroupChlClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM

Item	Description
Table name	ApGroupChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: 0—Periodic calibration mode (default). 1—Scheduled calibration mode.	Optional

RRM/ApTimeRangeNameCfg

This table contains radio time range information.

XML structure

```

<RRM>
  <TimeRangeNameCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </TimeRangeNameCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	TimeRangeNameCfg
Table type	Multi-instance table

Item	Description
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApGroupTimeRangeNameCfg

This table contains AP group time range information.

XML structure

```

<RRM>
  <ApGroupTimeRangeNameCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </ApGroupTimeRangeNameCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupTimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApScanOnlyCfg

This table contains radio channel scanning information.

XML structure

```
<RRM>
  <ScanOnlyCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: • 0—Disable scan only • 1—Enable scan only	Optional

RRM/ApGroupScanOnlyCfg

This table contains AP group channel scanning information.

XML structure

```
<RRM>
  <ApGroupScanOnlyCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ApGroupScanOnlyCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: 0—Disable scan only (default). 1—Enable scan only.	Optional

RRM/HierarchyClbMode

This table contains hierarchy calibration mode information.

XML structure

```

<RRM>
  <HierarchyClbMode>
    <Mode>
    </Mode>
  </HierarchyClbMode>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	HierarchyClbMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Hierarchy-calibration mode	N/A	Enumeration: 0—Local(default). 1—Central.	N/A

RRM/ApChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of an AP.

XML structure

```
<RRM>
  <ChlClbSntCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: 0—Custom(default). 1—Low. 2—Medium. 3—High.	Optional

RRM/ApGroupChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupChlClbSntCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ApGroupChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • 0—Custom(default). • 1—Low. • 2—Medium. • 3—High.	Optional

RRM/ApRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of an AP.

XML structure

```
<RRM>
  <RadioSelectionCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </RadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • 0—All channels(default). • 1—Overlapping channels.	Optional

RRM/APGroupRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <APGroupRadioSelectionCfg>
    <Radio>
```



```

    <ApGroupName></ApGroupName>
    <ApModel></ApModel>
    <RadioID></RadioID>
    <RadioSelection></RadioSelection>
  </Radio>
</ApGroupRadioSelectionCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupRadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: 0—All channels(default). 1—Overlapping channels.	Optional

RRM/ApSuppressionStatusCfg

This table contains Channel calibration suppression configuration information for radios of an AP.

XML structure

```

<RRM>
  <SuppressionStatusCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
    </Radio>
  </SuppressionStatusCfg>
</RRM>

```

```

        <ClientThres></ClientThres>
    </Radio>
</SuppressionStatusCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	SuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: 0—Disable(default). 1—Enable.	Optional
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124	Optional

RRM/ApGroupSuppressionStatusCfg

This table contains Channel calibration suppression configuration information for radios of APs in an AP group.

XML structure

```

<RRM>
  <ApGroupSuppressionStatusCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </ApGroupSuppressionStatusCfg>
</RRM>

```

```

    </Radio>
  </ApGroupSuppressionStatusCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupSuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: 0—Disable(default). 1—Enable.	Optional
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	Optional

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RRM

RRM/ClbInterval

This table contains channel calibration interval information.

XML structure

```
<RRM>
  <ClbInterval>
    <Interval></Interval>
  </ClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Channel calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 1440. Default: 8.

RRM/PwrClbInterval

This table contains power calibration interval information.

XML structure

```
<RRM>
  <PwrClbInterval>
    <Interval></Interval>
  </PwrClbInterval>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbInterval
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval	Power calibration interval in minutes	N/A	Unsigned integer. Value range: 3 to 180. Default: 8.

RRM/ApPowerCfg

This table contains information about adjacency factor and the least transmit power and threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```
<RRM>
  <PowerCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </PowerCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PowerCfg
Table type	Multi-instance table

Item	Description
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Adjacency Factor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16.	N/A
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20.	N/A
PwrThresh hold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 50 to 90.	N/A
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: 0—Disable auto power selection. 1—Enable auto power selection.	N/A

RRM/ApGroupPowerCfg

This table contains the operation to set ApGroup radio's adjacency factor and the least transmit power and the threshold of calibrating power and a switch to enable radio calibrate power automatically.

XML structure

```

<RRM>
  <ApGroupPowerCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
      <PwrThreshold></PwrThreshold>
      <PwrClbMode></PwrClbMode>
    </Radio>
  </ApGroupPowerCfg>
</RRM>

```

```

    </ApGroupPowerCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPowerCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer. Value range: 1 to 16 Default value: 3.	Optional
PwrMin	The least transmit power of radio	N/A	Unsigned integer. Value range: 1 to 20 Default value: 1.	Optional
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer. Value range: 50 to 90 Default value: 65.	Optional
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Enumeration: 0—Disable auto power selection(default). 1—Enable auto power selection.	Optional

RRM/ApChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically.

XML structure

```
<RRM>
  <ChannelCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChlClbMode></ChlClbMode>
    </Radio>
  </ChannelCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 10 to 100.	N/A
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 10 to 100.	N/A
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 15 to 45.	N/A
ChlClbMode	Enable/Disable auto	N/A	Enumeration: • 0 —Disable auto channel	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	channel selection of radio		selection. 1—Enable auto channel selection.	

RRM/APGroupChannelCfg

This table contains information about CRC-error threshold and Interference threshold to determine one APGroup radio's current channel is good or bad, and tolerance level that determines if the radio switch current channel, and a switch to enable one radio calibrate channel automatically.

XML structure

```

<RRM>
  <APGroupChannelCfg>
    <Radio>
      <APGroupName></APGroupName>
      <APModel></APModel>
      <RadioID></RadioID>
      <CrcErrThreshold></CrcErrThreshold>
      <InterferenceThreshold></InterferenceThreshold>
      <ToleranceLevel></ToleranceLevel>
      <ChLCbMode></ChLCbMode>
    </Radio>
  </APGroupChannelCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	APGroupChannelCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP Group name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer. Value range: 10 to 100 Default value: 20.	Optional
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer. Value range: 10 to 100 Default value: 50.	Optional
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value range: 15 to 45 Default value: 20.	Optional
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Enumeration: 0—Disable auto channel selection(default). 1—Enable auto channel selection.	Optional

RRM/ApWsaCfg

This table contains the operation to set a switch to enable radio responds to the event reported by WLAN Spectrum Analysis.

XML structure

```

<RRM>
  <ApWsaCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApWsaCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApWsaCfg
Table type	Multi-instance table
Row name	Radio

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: 0—Disable WSA collaboration . 1—Enable WSA collaboration.	Optional

RRM/ApGroupWsaCfg

This table contains information about a switch to enable one ApGroup radio collaborates with WSA automatically.

XML structure

```

<RRM>
  <ApGroupWsaCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <Mode></Mode>
    </Radio>
  </ApGroupWsaCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupWsaCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup name	Index	String: case-insensitive Length: 1 to 31 characters	N/A
APModel	AP Model name	Index	String: case-insensitive Length: 1 to 63 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: 0—Disable WSA collaboration (default). 1—Enable WSA collaboration.	Optional

RRM/History

This table contains the fields which carry history information.

XML structure

```

<RRM>
  <History>
    <RadioCount>
      <ApName></ApName>
      <RadioID></RadioID>
      <HistoryCnt></HistoryCnt>
      <BasicBSSID></BasicBSSID>
      <ChangeTime></ChangeTime>
      <ReasonBitMap></ReasonBitMap>
      <UtilBef></UtilBef>
      <UtilAft></UtilAft>
      <LoadBef></LoadBef>
      <LoadBef></LoadBef>
      <TotalIntrfBef></TotalIntrfBef>
      <TotalIntrfAft></TotalIntrfAft>
      <PacketErrBef></PacketErrBef>
      <PacketErrAft></PacketErrAft>
      <ChlNumBef></ChlNumBef>
      <ChlNumAft></ChlNumAft>
      <PwrLvlBef></PwrLvlBef>
      <PwrLvlAft></PwrLvlAft>
      <RetryBef></RetryBef>
      <RetryAft></RetryAft>
    </RadioCount>
  </History>

```

</RRM>

Table description

Item	Description
Feature name	RRM
Table name	History
Table type	Muti-instance table
Row name	RadioCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
HistoryCnt	The Nth history information	Index	Unsigned integer. Value range: 1 to 3.	N/A
BasicBSS ID	Field of Radio Information	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ChangeTime	Date and time when change occurs.	N/A	String	Example: 2014-05-07T09:35:07.
ReasonBit Map	Field of History Information	N/A	Unsigned integer. Rewrite the unsigned integer to binary number. The Reason can be judged by whether the bits of this binary number is 1. the last bit is RadioDown; the second last bit is Interference; the third last bit is Noise; the forth last bit is PachetDisCard; the fifth last bit is Retransmission; the sixth last bit is Radar; the seventh last bit is Other; the Reason can be the combination of 2 or more reasons.	N/A
UtilBef	Utilization before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
UtilAft	Utilization after calibration	N/A	Unsigned integer. Value range: 0 to 100.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: %.	
LoadBef	Load before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadAft	Load after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrBef	Total Interference before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrAft	Total Interference after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrBef	Packet error rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrAft	Packet error rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
ChlNumBef	Channel number before calibration	N/A	Unsigned integer.	N/A
ChlNumAft	Channel number after calibration	N/A	Unsigned integer.	N/A
PwrLvlBef	Power level before calibration	N/A	Unsigned integer.	N/A
PwrLvlAft	Power level after calibration	N/A	Unsigned integer.	N/A
RetryBef	Retransmission rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
RetryAft	Retransmission rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

RRM/ClbGroupCfg

This table contains calibration group

XML structure

```
<RRM>
  <ClbGroupCfg>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCfg
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Not support creation/deletion

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ClbGroupMemberCfg

This table contains calibration group member

XML structure

```
<RRM>
  <ClbGroupMemberCfg>
    <ClbGroupMember>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbGroupId></ClbGroupId>
    </ClbGroupMember>
  </ClbGroupMemberCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMemberCfg
Table type	Multi-instance table
Row name	ClbGroupMember
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Ap name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
RadioNum	Radio number	Index	Unsigned short. Value range: 1 to 4.	N/A
ClbGroupId	Calibration group id	N/A	Unsigned integer.	N/A

RRM/ConfigureSpec

This table contains RRM's configure specification values.

XML structure

```
<RRM>
  <ConfigureSpec>
    <Interval_Min></Interval_Min>
    <Interval_Max></Interval_Max>
```

```

<Interval_Def></Interval_Def>
<PwrClbInterval_Min></PwrClbInterval_Min>
<PwrClbInterval_Max></PwrClbInterval_Max>
<PwrClbInterval_Def></PwrClbInterval_Def>
<AdjacencyFactor_Min></AdjacencyFactor_Min>
<AdjacencyFactor_Max></AdjacencyFactor_Max>
<AdjacencyFactor_Def></AdjacencyFactor_Def>
<PwrMin_Min></PwrMin_Min>
<PwrMin_Max></PwrMin_Max>
<PwrMin_Def></PwrMin_Def>
<PwrThreshold_Min></PwrThreshold_Min>
<PwrThreshold_Max></PwrThreshold_Max>
<PwrThreshold_Def></PwrThreshold_Def>
<CrcErrThreshold_Min></CrcErrThreshold_Min>
<CrcErrThreshold_Max></CrcErrThreshold_Max>
<CrcErrThreshold_Def></CrcErrThreshold_Def>
<InterferenceThreshold_Min></InterferenceThreshold_Min>
<InterferenceThreshold_Max></InterferenceThreshold_Max>
<InterferenceThreshold_Def></InterferenceThreshold_Def>
<ToleranceLevel_Min></ToleranceLevel_Min>
<ToleranceLevel_Max></ToleranceLevel_Max>
<ToleranceLevel_Def></ToleranceLevel_Def>
<ClbGroupDescription_MinLen></ClbGroupDescription_MinLen>
<ClbGroupDescription_MaxLen></ClbGroupDescription_MaxLen>
<ChlHolddownTime_Min></ChlHolddownTime_Min>
<ChlHolddownTime_Max></ChlHolddownTime_Max>
<ChlHolddownTime_Def></ChlHolddownTime_Def>
<PwrHolddownTime_Min></PwrHolddownTime_Min>
<PwrHolddownTime_Max></PwrHolddownTime_Max>
<PwrHolddownTime_Def></PwrHolddownTime_Def>
<ClbGroupId_Min></ClbGroupId_Min>
<ClbGroupId_Max></ClbGroupId_Max>
<Coverage_AdjacencyFactor></Coverage_AdjacencyFactor>
<Coverage_PwrThreshold></Coverage_PwrThreshold>
<Coverage_PwrMin></Coverage_PwrMin>
<Density_AdjacencyFactor></Density_AdjacencyFactor>
<Density_PwrThreshold></Density_PwrThreshold>
<Density_PwrMin></Density_PwrMin>
</ConfigureSpec>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ConfigureSpec
Table type	Multi-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Interval_Min	Smallest channel calibration interval	N/A	Unsigned integer. Value is 3.
Interval_Max	Largest channel calibration interval	N/A	Unsigned integer. Value is 1440.
Interval_Def	Default channel calibration interval	N/A	Unsigned integer. Value is 8.
PwrClbInterval_Min	Smallest power calibration interval	N/A	Unsigned integer. Value is 3.
PwrClbInterval_Max	Largest power calibration interval	N/A	Unsigned integer. Value is 180.
PwrClbInterval_Def	Default power calibration interval	N/A	Unsigned integer. Value is 8.
AdjacencyFactor_Min	The minimum adjacency factor of radio	N/A	Unsigned integer. Value is 1
AdjacencyFactor_Max	The maximum adjacency factor of radio	N/A	Unsigned integer. Value is 16
AdjacencyFactor_Def	The default adjacency factor of radio	N/A	Unsigned integer. Value is 3
PwrMin_Min	The minimum least transmit power of radio	N/A	Unsigned integer. Value is 1
PwrMin_Max	The maximum least transmit power of radio	N/A	Unsigned integer. Value is 20
PwrMin_Def	The default least transmit power of radio	N/A	Unsigned integer. Value is 1
PwrThreshold_Min	The minimum threshold of calibrating radio's power	N/A	Unsigned integer. Value is 50
PwrThreshold_Max	The maximum threshold of calibrating radio's power	N/A	Unsigned integer. Value is 90

Column name	Column description	Column type	Data type and restrictions
PwrThreshold_Def	The default threshold of calibrating radio's power	N/A	Unsigned integer. Value is 65
CrcErrThreshold_Min	The minimum CRC-error threshold of radio	N/A	Unsigned integer. Value is 10
CrcErrThreshold_Max	The maximum CRC-error threshold of radio	N/A	Unsigned integer. Value is 100
CrcErrThreshold_Def	The default CRC-error threshold of radio	N/A	Unsigned integer. Value is 20
InterferenceThreshold_Min	The minimum Interference threshold of radio	N/A	Unsigned integer. Value is 10
InterferenceThreshold_Max	The maximum Interference threshold of radio	N/A	Unsigned integer. Value is 100
InterferenceThreshold_Def	The default Interference threshold of radio	N/A	Unsigned integer. Value is 50
ToleranceLevel_Min	The minimum tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 15
ToleranceLevel_Max	The maximum tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 45
ToleranceLevel_Def	The default tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer. Value is 20
ClbGroupDescription_MinLen	Minimum length of calibration group description	N/A	Unsigned integer. Value is 1
ClbGroupDescription_MaxLen	Maximum length of calibration group description	N/A	Unsigned integer. Value is 64
ChlHolddownTime_Min	The minimum channel holddown time	N/A	Unsigned integer. Value is 10
ChlHolddownTime_Max	The maximum channel holddown time	N/A	Unsigned integer. Value is 1440

Column name	Column description	Column type	Data type and restrictions
ChlHolddownTime_Def	The default channel holddown time	N/A	Unsigned integer. Value is 720
PwrHolddownTime_Min	The minimum power holddown time	N/A	Unsigned integer. Value is 10
PwrHolddownTime_Max	The maximum power holddown time	N/A	Unsigned integer. Value is 1440
PwrHolddownTime_Def	The default power holddown time	N/A	Unsigned integer. Value is 60
ClbGroupId_Min	The minimum Calibration group id	N/A	Unsigned integer. Value is 1
ClbGroupId_Max	The maximum Calibration group id	N/A	Unsigned integer. Value is 128
Coverage_AdjacencyFactor	The default adjacency factor of power coverage calibration mode	N/A	Unsigned integer. Value is 6
Coverage_PwrThreshold	The default power threshold of power coverage calibration mode	N/A	Unsigned integer. Value is 65
Coverage_PwrMin	The default minimum least transmit power of power coverage calibration mode	N/A	Unsigned integer. Value is 1
Density_AdjacencyFactor	The default adjacency factor of power density calibration mode	N/A	Unsigned integer. Value is 1
Density_PwrThreshold	The default power threshold of power density calibration mode	N/A	Unsigned integer. Value is 80
Density_PwrMin	The default minimum least transmit power of power density calibration mode	N/A	Unsigned integer. Value is 1

RRM/ClbGroupCreate

This table contains the operation to create a calibration group.

XML structure

```
<RRM>
  <ClbGroupCreate>
    <ClbGroupId></ClbGroupId>
  </ClbGroupCreate>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupCreate
Table type	Single-instance table
Row name	None
Restrictions	Just support for creation

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128.	N/A

RRM/ClbGroupDelete

This table contains the operation to delete a calibration group.

XML structure

```
<RRM>
  <ClbGroupDelete>
    <ClbGroup>
      <ClbGroupIdIndex></ClbGroupIdIndex>
      <ClbGroupIdColumn></ClbGroupIdColumn>
    </ClbGroup>
  </ClbGroupDelete>
</RRM>
```

Table description

Item	Description
Feature name	RRM

Item	Description
Table name	ClbGroupDelete
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for deletion/removing

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupIdIndex	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupIdColumn	Calibration group id	N/A	Unsigned integer. Value range: 1 to 128	N/A

RRM/ClbGroupMerge

This table contains the operation to merge a calibration group.

XML structure

```

<RRM>
  <ClbGroupMerge>
    <ClbGroup>
      <ClbGroupId></ClbGroupId>
      <ClbGroupDescription></ClbGroupDescription>
      <ChlHolddownTime></ChlHolddownTime>
      <PwrHolddownTime></PwrHolddownTime>
      <LocationName></LocationName>
    </ClbGroup>
  </ClbGroupMerge>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ClbGroupMerge
Table type	Multi-instance table
Row name	ClbGroup
Restrictions	Just support for merging

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClbGroupId	Calibration group id	Index	Unsigned integer.	N/A
ClbGroupDescription	Calibration group description	N/A	String: case-insensitive Length: 1 to 64 characters	N/A
ChlHolddownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 720.	N/A
PwrHolddownTime	Power holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 60	N/A
LocationName	Location name	N/A	String: case-insensitive Length: 1 to 31 characters	N/A

RRM/ApPwrClbModeCfg

This table contains radio power calibration mode information.

XML structure

```
<RRM>
  <PwrClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </PwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	PwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • 0—Custom calibration mode. • 1—Coverage calibration mode. • 2—Density calibration mode.	Optional

RRM/ApGroupPwrClbModeCfg

This table contains AP group power calibration mode information.

XML structure

```
<RRM>
  <ApGroupPwrClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupPwrClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupPwrClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • 0—Custom calibration mode (default). • 1—Coverage calibration mode. • 2—Density calibration mode.	Optional

RRM/ApChlClbModeCfg

This table contains radio channel calibration mode information.

XML structure

```
<RRM>
  <ChlClbModeCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • 0—Period calibration mode. • 1—Scheduled calibration mode.	Optional

RRM/APGroupChlClbModeCfg

This table contains AP group channel calibration mode information.

XML structure

```
<RRM>
  <ApGroupChlClbModeCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ClbMode></ClbMode>
    </Radio>
  </ApGroupChlClbModeCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbModeCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ClbMode	Calibration mode	N/A	Enumeration: • 0—Periodic calibration mode. • 1—Scheduled calibration mode.	Optional

RRM/ApTimeRangeNameCfg

This table contains radio time range information.

XML structure

```
<RRM>
  <TimeRangeNameCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </TimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	TimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApGroupTimeRangeNameCfg

This table contains AP group time range information.

XML structure

```
<RRM>
  <ApGroupTimeRangeNameCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <TimeRangeName></TimeRangeName>
    </Radio>
  </ApGroupTimeRangeNameCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupTimeRangeNameCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive. Length: 1 to 32 characters.	The date must be in the range of the year 1970 to the year 2100.

RRM/ApScanOnlyCfg

This table contains radio channel scanning information.

XML structure

```

<RRM>
  <ScanOnlyCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ScanOnlyCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ScanMode	Channel scanning status	N/A	Enumeration: 0—Disable scan only 1—Enable scan only	Optional

RRM/ApGroupScanOnlyCfg

This table contains AP group channel scanning information.

XML structure

```

<RRM>
  <ApGroupScanOnlyCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ScanMode></ScanMode>
    </Radio>
  </ApGroupScanOnlyCfg>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupScanOnlyCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4.	
ScanMode	Channel scanning status	N/A	Enumeration: 0—Disable scan only (default). 1—Enable scan only.	Optional

RRM/BaselineInfoHead

This table contains baseline table information.

XML structure

```

<RRM>
  <BaselineInfoHead>
    <Radio>
      <BaselineName></BaselineName>
      <Count></Count>
      <Description></Description>
      <CreateTime></CreateTime>
      <BaselineType></BaselineType>
      <BaselineRange></BaselineRange>
    </Radio>
  </BaselineInfoHead>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	BaselineInfoHead
Table type	Muti-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
Count	Radio	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	quantity			
Description	Baseline description	N/A	String. Length: 1 to 63 characters.	N/A
CreateTime	Creation time	N/A	String. Length: 1 to 19 characters.	N/A
BaselineType	Baseline type	N/A	String. Length: 1 to 9 characters.	N/A
BaselineRange	Baseline range	N/A	String. Length: 1 to 9 characters.	N/A

RRM/BaselineInfoBody

This table contains baseline information.

XML structure

```

<RRM>
  <BaselineInfoBody>
    <Radio>
      <BaselineName></BaselineName>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioType></RadioType>
      <PrimaryChannel></PrimaryChannel>
      <Power></Power>
      <BandWidth></BandWidth>
      <RegionCode></RegionCode>
    </Radio>
  </BaselineInfoBody>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	BaselineInfoBody
Table type	Muti-instance table
Row name	Radio
Restrictions	You can only get the table information in bulk, and the first index 'BaselineName' can't be empty.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BaselineName	Baseline name	Index	String: case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
ApName	AP name	Index	String: case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioType	Radio type	N/A	Unsigned integer.	N/A
PrimaryChannel	Current working channel	N/A	Unsigned short.	N/A
Power	Current power	N/A	Unsigned short.	N/A
BandWidth	Current band width	N/A	Unsigned char.	N/A
RegionCode	Region code	N/A	Unsigned integer.	N/A

RRM/BaselineApplyResult

This table contains baseline application result information.

XML structure

```

<RRM>
  <BaselineApplyResult>
    <ApplyHistory>
      <TimeIdxSec></TimeIdxSec>
      <TimeIdxNanoSec></TimeIdxNanoSec>
      <BaselineName></BaselineName>
      <ApplyTime></ApplyTime>
      <BaselineRange></BaselineRange>
      <Total></Total>
      <Success></Success>
      <Failed></Failed>
      <RadioNotExist></RadioNotExist>
      <RadioDown></RadioDown>
      <RadioTypeMismatch></RadioTypeMismatch>
      <RegionCodeMismatch></RegionCodeMismatch>
      <AccSrvDisable ></AccSrvDisable>
      <ChlIllegal></ChlIllegal>
      <BandwidthMismatch></BandwidthMismatch>
      <ChlLocked></ChlLocked>
    
```

```

    <ChlFixed></ChlFixed>
    <ChlHold></ChlHold>
    <ChlGapPolicy></ChlGapPolicy>
    <PwrLocked></PwrLocked>
    <PwrHold></PwrHold>
    <MinPwrIllegal></MinPwrIllegal>
    <MaxPwrIllegal></MaxPwrIllegal>
  </ApplyHistory>
</BaselineApplyResult>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	BaselineApplyResult
Table type	Muti-instance table
Row name	ApplyHistory
Restrictions	You can only get the table information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeIdxSec	Current time in second	Index	Unsigned integer 64	N/A
TimeIdxNanoSec	Current time in nano second	Index	Unsigned integer 64	N/A
BaselineName	Baseline name	N/A	String:case-insensitive. Length: 1 to 32 characters.	Uppercase characters will be converted to lowercase forms automatically.
ApplyTime	Apply time	N/A	String. Length: 1 to 19 characters.	N/A
BaselineRange	Baseline range	N/A	String. Length: 1 to 9 characters.	N/A
Total	Total records	N/A	Unsigned integer.	N/A
Success	Successful records	N/A	Unsigned integer.	N/A
Failed	Failed records	N/A	Unsigned integer.	N/A
RadioNotExist	Radio does not exist	N/A	Unsigned integer.	Failure reason
RadioDown	Radio is down	N/A	Unsigned integer.	Failure reason
RadioTypeMismatch	Mismatched	N/A	Unsigned integer.	Failure reason

Column name	Column description	Column type	Data type and restrictions	Remarks
h	radio type			
RegionCodeMismatch	Mismatched region code	N/A	Unsigned integer.	Failure reason
AccSrvDisable	Access service disabled	N/A	Unsigned integer.	Failure reason
ChlIllegal	Illegal channel	N/A	Unsigned integer.	Failure reason
BandwidthMismatch	Mismatched bandwidth	N/A	Unsigned integer.	Failure reason
ChlLocked	Channel is locked	N/A	Unsigned integer.	Failure reason
ChlFixed	Channel is fixed	N/A	Unsigned integer.	Failure reason
ChlHold	Channel is within the holddown time	N/A	Unsigned integer.	Failure reason
ChlGapPolicy	Mismatched channel gap policy	N/A	Unsigned integer.	Failure reason
PwrLocked	Power is locked	N/A	Unsigned integer.	Failure reason
PwrHold	Power is within the holddown time	N/A	Unsigned integer.	Failure reason
MinPwrIllegal	Power is lower than the min. power	N/A	Unsigned integer.	Failure reason
MaxPwrIllegal	Power is higher than the max. power	N/A	Unsigned integer.	Failure reason

RRM/ApRunningData

This table contains RRM's running-data information.

XML structure

```

<RRM>
  <RunningData>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <AdjacencyFactor></AdjacencyFactor>
      <PwrMin></PwrMin>
    </Radio>
  </RunningData>
</RRM>

```

```

    <PwrThreshold></PwrThreshold>
    <PwrClbMode></PwrClbMode>
    <PwrClbScen></PwrClbScen>
    <AdjFacRdSel></AdjFacRdSel>
    <CrcErrThreshold></CrcErrThreshold>
    <InterferenceThreshold></InterferenceThreshold>
    <ToleranceLevel></ToleranceLevel>
    <ChlClbMode></ChlClbMode>
    <ChlClbOption></ChlClbOption>
    <SuppressionStatus></SuppressionStatus>
    <ChlClbClientThres></ChlClbClientThres>
    <ChlClbSnt></ChlClbSnt>
    <ClbGroupId></ClbGroupId>
    <WsaFlag></WsaFlag>
    <TimeRangeName></TimeRangeName>
    <ScanMode></ScanMode>
    <ServiceType></ServiceType>
    <IsChlPronto></IsChlPronto>
    <IsPwrPronto></IsPwrPronto>
    <IsRdScan></IsRdScan>
  </Radio>
</RunningData>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	RunningData
Table type	Multi-instance table
Row name	Radio
Restrictions	You can only get the table information.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	Name of specify ap	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio Id	Index	Unsigned integer. Value range: 1 to 4.	N/A
AdjacencyFactor	The adjacency factor of radio	N/A	Unsigned integer.	N/A
PwrMin	The least transmit power of radio	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PwrThreshold	The threshold of calibrating radio's power	N/A	Unsigned integer.	N/A
PwrClbMode	Enable/Disable auto power selection of radio	N/A	Unsigned integer.	N/A
PwrClbScen	Power calibration mode	N/A	Unsigned integer.	N/A
AdjFacRdSel	Adjacency-factor or radio-selection	N/A	Unsigned integer	N/A
CrcErrThreshold	The CRC-error threshold of radio	N/A	Unsigned integer.	N/A
InterferenceThreshold	The Interference threshold of radio	N/A	Unsigned integer.	N/A
ToleranceLevel	The tolerance level of radio to determine if the radio switch current channel	N/A	Unsigned integer.	N/A
ChlClbMode	Enable/Disable auto channel selection of radio	N/A	Unsigned integer.	N/A
ChlClbOption	Channel calibration mode	N/A	Unsigned integer.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: 0—Disable. 1—Enable.	N/A
ChlClbClientThresholds	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default: 124.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: 0—Custom. 1—Low. 2—Medium. 3—High.	N/A
ClbGroupId	Calibration group index	N/A	Unsigned integer.	N/A
WsaFlag	WSA collaboration of radio	N/A	Unsigned integer.	N/A
TimeRangeName	Time range name	N/A	String: case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ScanMode	Channel scanning status	N/A	Unsigned integer.	N/A
ServiceType	Radio service type	N/A	Unsigned integer.	N/A
IsChlPronto	Channel pronto calibration flag	N/A	Boolean: true—Support. false—Not support.	N/A
IsPwrPronto	Power pronto calibration flag	N/A	Boolean: true—Support. false—Not support.	N/A
IsRdScan	Whether a radio is set to scan	N/A	Boolean: true—Support. false—Not support.	N/A

RRM/EnvQuality

This table contains information about environmental quality scores.

XML structure

```

<RRM>
  <EnvQuality>
    <EnvQualityScore>
      <RadioType></RadioType>
      <Score></Score>
    </EnvQualityScore>
  </EnvQuality>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	EnvQuality
Table type	Muti-instance table
Row name	EnvQualityScore
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioType	Radio type	Index	Enumeration: • 1—Radio type is 2.4G. • 2— Radio type is 5G.	N/A
Score	Environmental quality score	N/A	Unsigned integer.	N/A

RRM/RadioDetail

This table contains details about bad environmental quality radio.

XML structure

```
<RRM>
  <RadioDetail>
    <Radio>
      <RadioType></RadioType>
      <ApName></ApName>
      <RadioID></RadioID>
      <Reason></Reason>
    </Radio>
  </RadioDetail>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioDetail
Table type	Muti-instance table
Row name	Radio
Restrictions	You can only get the table information in bulk, and the first index can't be empty.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioType	Radio type	Index	Enumeration: • 1—Radio type is 2.4G. • 2— Radio type is 5G.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
Reason	Detail about environmental quality	N/A	Unsigned integer.	N/A

RRM/LastHistoryRecord

This table contains the fields that carry the most recent history record information.

XML structure

```

<RRM>
  <LastHistoryRecord>
    <RadioCount>
      <ApName></ApName>
      <RadioID></RadioID>
      <BasicBSSID></BasicBSSID>
      <ChangeTime></ChangeTime>
      <ReasonBitMap></ReasonBitMap>
      <UtilBef></UtilBef>
      <UtilAft></UtilAft>
      <LoadBef></LoadBef>
      <LoadBef></LoadBef>
      <TotalIntrfBef></TotalIntrfBef>
      <TotalIntrfAft></TotalIntrfAft>
      <PacketErrBef></PacketErrBef>
      <PacketErrAft></PacketErrAft>
      <ChlNumBef></ChlNumBef>
      <ChlNumAft></ChlNumAft>
      <PwrLvlBef></PwrLvlBef>
      <PwrLvlAft></PwrLvlAft>
      <RetryBef></RetryBef>
      <RetryAft></RetryAft>
    </RadioCount>
  </LastHistoryRecord>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	LastHistoryRecord

Item	Description
Table type	Muti-instance table
Row name	RadioCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
BasicBSS ID	Basic SSID	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
ChangeTime	Date and time when change occurs	N/A	String	Example: 2014-05-07T09:35:07.
ReasonBit Map	Field of history information	N/A	Unsigned integer. Each bit in the string represents a reason. The changes were caused by reasons which bits are set to 1. Meaning of each bit: The last bit represents RadioDown; The second last bit represents Interference; The third last bit represents Noise; The forth last bit represents PachetDisCard; The fifth last bit represents Retransmission; The sixth last bit represents Radar; The seventh last bit represents Other;	N/A
UtilBef	Utilization before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
UtilAft	Utilization after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadBef	Load before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
LoadAft	Load after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalIntrfBef	Total interference before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
TotalIntrfAft	Total interference after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrBef	Packet error rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
PacketErrAft	Packet error rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
ChlNumBef	Channel number before calibration	N/A	Unsigned integer.	N/A
ChlNumAft	Channel number after calibration	N/A	Unsigned integer.	N/A
PwrLvIBef	Power level before calibration	N/A	Unsigned integer.	N/A
PwrLvIAft	Power level after calibration	N/A	Unsigned integer.	N/A
RetryBef	Retransmission rate before calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A
RetryAft	Retransmission rate after calibration	N/A	Unsigned integer. Value range: 0 to 100. Unit: %.	N/A

RRM/HierarchyClbMode

This table contains hierarchy calibration mode information.

XML structure

```

<RRM>
  <HierarchyClbMode>
    <Mode></Mode>
  </HierarchyClbMode>
</RRM>

```

Table description

Item	Description
Feature name	RRM
Table name	HierarchyClbMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Hierarchy-calibration mode	N/A	Enumeration: • 0—Local. • 1—Central.	N/A

RRM/ApChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of an AP.

XML structure

```
<RRM>
  <ChlClbSntCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • 0—Custom. • 1—Low. • 2—Medium. • 3—High.	N/A

RRM/ApGroupChlClbSntCfg

This table contains channel calibration sensitivity configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupChlClbSntCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <ChlClbSnt></ChlClbSnt>
    </Radio>
  </ApGroupChlClbSntCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupChlClbSntCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
ChlClbSnt	Channel calibration sensitivity mode	N/A	Enumeration: • 0—Custom. • 1—Low. • 2—Medium. • 3—High.	N/A

RRM/ApRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of an AP.

XML structure

```
<RRM>
  <RadioSelectionCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </RadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	RadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • 0—All channels. • 1—Overlapping channels.	N/A

RRM/ApGroupRadioSelectionCfg

This table contains adjacency-factor radio-selection mode configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupRadioSelectionCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <RadioSelection></RadioSelection>
    </Radio>
  </ApGroupRadioSelectionCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupRadioSelectionCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
RadioSelection	Adjacency-factor radio-selection mode	N/A	Enumeration: • 0—All channels. • 1—Overlapping channels.	N/A

RRM/ApSuppressionStatusCfg

This table contains channel calibration suppression configuration information for radios of an AP.

XML structure

```
<RRM>
  <SuppressionStatusCfg>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </SuppressionStatusCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	SuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String: case-insensitive Length: 1 to 64 characters	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	N/A

RRM/ApGroupSuppressionStatusCfg

This table contains channel calibration suppression configuration information for radios of APs in an AP group.

XML structure

```
<RRM>
  <ApGroupSuppressionStatusCfg>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModel></ApModel>
      <RadioID></RadioID>
      <SuppressionStatus></SuppressionStatus>
      <ClientThres></ClientThres>
    </Radio>
  </ApGroupSuppressionStatusCfg>
</RRM>
```

Table description

Item	Description
Feature name	RRM
Table name	ApGroupSuppressionStatusCfg
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String: case-insensitive. Length: 1 to 31 characters.	N/A
ApModel	AP model name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
SuppressionStatus	Channel calibration suppression status	N/A	Enumeration: • 0—Disable. • 1—Enable.	N/A
ClientThres	Client number	N/A	Unsigned integer. Value range: 1 to 124. Default:124.	N/A

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SAMPLER

SAMPLER/Sampler

This table contains Sampler configuration information.

XML structure

```
<SAMPLER>
  <Sampler>
    <SamplerEntry>
      <SamplerName></SamplerName>
      <Mode></Mode>
      <PacketInterval></PacketInterval>
    </SamplerEntry>
  </Sampler>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	Sampler
Table type	Multi-instance table
Row name	SamplerEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler Name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Mode	Sampler Mode	N/A	Enumeration: 1—fixed 2—random	The value of Mode depends on the device model.
PacketInterval	PacketInterval Rate	N/A	Unsigned integer. Value range: 1 to PacketIntervalMaxNum	The value of PacketIntervalMaxNum depends on the device model.

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SAMPLER

SAMPLER/Sampler

This table contains Sampler information.

XML structure

```
<SAMPLER>
  <Sampler>
    <SamplerEntry>
      <SamplerName></SamplerName>
      <Mode></Mode>
      <PacketInterval></PacketInterval>
    </SamplerEntry>
  </Sampler>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	Sampler
Table type	Multi-instance table
Row name	SamplerEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler Name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
Mode	Sampler Mode	N/A	Enumeration: 1 —fixed 2 —random	N/A
PacketInterval	PacketInterval Rate	N/A	Unsigned integer. Value range: 1 to PacketIntervalMaxNum	The value of PacketIntervalMaxNum depends on the device model.

SAMPLER/SamplerSpecification

This table contains Sampler specification information.

XML structure

```
<SAMPLER>
  <SamplerSpecification>
    <SupportFixedMode></SupportFixedMode>
    <SupportRandomMode></SupportRandomMode>
    <MaxPacketInterval></MaxPacketInterval>
  </SamplerSpecification>
</SAMPLER>
```

Table description

Item	Description
Feature name	SAMPLER
Table name	SamplerSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportFixedMode	Whether the FixedMode is enabled.	N/A	Boolean: true - false	N/A
SupportRandomMode	Whether the RandomMode is enabled.	N/A	Boolean: true - false	N/A
MaxPacketInterval	Max Sampler Rate	N/A	Unsigned integer.	The value of MaxPacketInterval depends on the device model.

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SecurityPolicies

SecurityPolicies/ClearRuleStatistic

This table contains the operation information for a security policy rule.

XML structure

```
<SecurityPolicies>
  <ClearRuleStatistic>
    <Rule>
      <RuleID></RuleID>
      <ClearType></ClearType>
      <Clear></Clear>
    </Rule>
  </ClearRuleStatistic>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ClearRuleStatistic
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.	N/A
ClearType	Type of statistics to be cleared.	N/A	Enumeration: 1—IPv4 statistics. 2—IPv6 statistics.	N/A
Clear	Clears security policy rule statistics.	N/A	This column must be empty.	Required.

SecurityPolicies/CommitCfgChange

This table contains the commit operation for configuration changes.

XML structure

```
<SecurityPolicies>
  <CommitCfgChange>
    <Commit></Commit>
  </CommitCfgChange>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	CommitCfgChange
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Commit	Commits configuration changes.	N/A	This column must be empty.	Required.

SecurityPolicies/MoveIPv4Rule

This table contains information about moving an IPv4 security policy rule within an IPv4 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv4Rule>
    <Rule>
      <ID></ID>
      <MoveType></MoveType>
      <DestID></DestID>
    </Rule>
  </MoveIPv4Rule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv4Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.	N/A
MoveType	Type of rule to be moved.	Index	Enumeration: • 1—Head. • 2—Before. • 3—After. • 4—Tail.	N/A
DestID	Destination rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.	N/A

SecurityPolicies/MoveIPv6Rule

This table contains information about moving an IPv6 security policy rule within an IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <MoveIPv6Rule>
    <Rule>
      <ID></ID>
      <MoveType></MoveType>
      <DestID></DestID>
    </Rule>
  </MoveIPv6Rule>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv6Rule
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.	N/A
MoveType	Type of rule to be moved.	Index	Enumeration: • 1—Head. • 2—Before. • 3—After. • 4—Tail.	N/A
DestID	Destination rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.	N/A

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SecurityPolicies

SecurityPolicies/IPv4Rules

This table contains IPv4 rule information.

XML structure

```
<SecurityPolicies>
  <IPv4Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
    </Rule>
  </IPv4Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65535.	If you set this column to 65535, the device automatically assigns the rule an ID.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value cannot be the word default.
Action	Action for the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	Required when you create a rule or modify a rule through the replace operation.
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.
TimeRange	Name of the time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Enable	Whether to enable the rule.	N/A	Boolean: - true—Enable (default). - false—Disable.	Optional.
Log	Whether to enable logging.	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
Counting	Whether to enable counting.	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
Comment	Description.	N/A	String. Length: 1 to 127 characters.	Optional.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.	Optional
SessAgingTimeSw	Whether to enable the session aging timer.	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.	Optional.
SessPersistAgingTimeSw	Whether to enable the persistent session aging timer.	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
SessPersistAgingTime	Persistent session aging time	N/A	Unsigned integer. Value range: 0 to 24000 hours.	Optional.

	period.		0 indicates that the timer never ages out.	
--	---------	--	--	--

SecurityPolicies/IPv6Rules

This table contains IPv6 rule information.

XML structure

```

<SecurityPolicies>
  <IPv6Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
    </Rule>
  </IPv6Rules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID.	Rule ID	Index	Unassigned integer.	If you set this column to

			Value range: 0 to 65535.	65535, the device automatically assigns the rule an ID.
RuleName.	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	The value cannot be the word default .
Action.	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.	Required when you create a rule or modify a rule through the replace operation.
VRF.	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.	Optional.
TimeRange.	Name of the time range	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	It cannot be the word all .
Enable.	Whether to enable the rule	N/A	Boolean: - true—Enable (default). - false—Disable.	Optional.
Log.	Whether to enable logging	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
Counting.	Whether to enable counting	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
Comment.	Description	N/A	String. Length: 1 to 127 characters.	Optional.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.	Optional
SessAgingTimeSw.	Whether to enable the session aging timer	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
SessAgingTime.	Session aging time period	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.	Optional.
SessPersistAgingTimeSw.	Whether to enable the persistent session aging timer.	N/A	Boolean: - true—Enable. - false—Disable (default).	Optional.
SessPersistAgingTime.	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.	Optional.

SecurityPolicies/IPv4SrcSecZone

This table contains source security zone information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv4SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the	Data	Members include:	N/A

	source security zone list	structure	NamelItem	
NamelItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A source security zone list can contain a maximum of 16 source security zones.

SecurityPolicies/IPv6SrcSecZone

This table contains source security zone information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv6SrcSecZone>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A

SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the source security zone list	Data structure	Members include: NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A source security zone list can contain a maximum of 16 source security zones.

SecurityPolicies/IPv4DestSecZone

This table contains destination security zone information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv4DestSecZone>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the destination security zone list	Data structure	Members include: NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A destination security zone list can contain a maximum of 16 destination security zones.

SecurityPolicies/IPv6DestSecZone

This table contains destination security zone information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv6DestSecZone>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies

Table name	IPv6DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 16.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the destination security zone list	Data structure	Members include: NameItem	N/A
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	A destination security zone list can contain a maximum of 16 destination security zones.

SecurityPolicies/IPv4SrcAddr

This table contains source address object group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  
```

```

    </IPv4SrcAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the source IPv4 address list	Data structure	Members include: NameItem	N/A
NameItem	Name of the source IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	A maximum of 1024 source address names are supported in a user list. The name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @

SecurityPolicies/IPv6SrcAddr

This table contains source address object group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6SrcAddr>

```

```

<SrcAddr>
  <ID></ID>
  <SeqNum></SeqNum>
  <IsIncrement></IsIncrement>
  <NameList>
    <NameItem></NameItem>
  </NameList>
</SrcAddr>
</IPv6SrcAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the source IPv6 address list	Data structure	Members include: NameItem	N/A
NameItem	Name of the source IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4DestAddr

This table contains destination address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv4DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A

NameList	Name of the destination IPv4 address list	Data structure	Members include: NameItem	N/A
NameItem	Name of the destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv6DestAddr

This table contains destination address object group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv6DestAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer.	N/A

			Value range: 0 to 65534.	
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the destination IPv6 address list	Data structure	Members include: NameItem	N/A
NameItem	Name of the destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4SrcMacAddr

This table contains source MAC address object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcMacAddr>
    <SrcMacAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcMacAddr>
  </IPv4SrcMacAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddr
Table type	Multi-instance table
Row name	SrcMacAddr

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the source IPv4 MAC address list	Data structure	Members include: NameItem	N/A
NameItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.	A maximum of 1024 source IPv4 MAC address names are supported in a user list. The name cannot be any , and it cannot contain any of the following characters: ?

SecurityPolicies/IPv4ServGrp

This table contains service object group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv4ServGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: • true—Yes. • false—No (default).	N/A
NameList	Name of the service object group list	Data structure	Members include: • NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv6ServGrp

This table contains service object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
```



```

    <NameList>
      <NameItem></NameItem>
    </NameList>
  </ServGrp>
</IPv6ServGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the service object group list	Data structure	Members include: NameItem	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

SecurityPolicies/IPv4App

This table contains application information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </App>
  </IPv4App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4App
Table type	Multi-instance table
Row name	App
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the application list	Data structure	Members include: NameItem	N/A
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6App

This table contains application information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </App>
  </IPv6App>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6App
Table type	Multi-instance table
Row name	App
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A

NameList	Name of the application list	Data structure	Members include: NameItem	N/A
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4AppGrp

This table contains application group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv4AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer.	N/A

			Value range: 0 to 65534.	
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the application group list	Data structure	Members include: NameItem	N/A
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv6AppGrp

This table contains application group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv6AppGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the application group list	Data structure	Members include: NameItem	N/A
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/IPv4User

This table contains user information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </User>
  </IPv4User>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4User

Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the user list	Data structure	Members include: NameItem	N/A
NameItem	Name of user	N/A	String, case-sensitive. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.	Form: user-name, user-name@domain-name. The user name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @. The domain name cannot contain any of the following characters: \ / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be d , de , def , defa , defau , defaul , default , i , if , if- , if-u , if-un , if-unk , if-unkn , if-unkno , if-unknow , or if-unknown .

SecurityPolicies/IPv6User

This table contains user information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6User>
```

```

<User>
  <ID></ID>
  <SeqNum></SeqNum>
  <IsIncrement></IsIncrement>
  <NameList>
    <NameItem></NameItem>
  </NameList>
</User>
</IPv6User>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6User
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the user list	Data structure	Members include: NameItem	N/A
NameItem	Name of the user	N/A	String, case-sensitive. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.	Form: user-name, user-name@domain-name. The user name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @. The domain name cannot contain any of the following

				characters: \ / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
--	--	--	--	---

SecurityPolicies/IPv4UserGrp

This table contains user group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv4UserGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A

SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the user group list	Data structure	Members include: NameItem	N/A
NameItem	Name of the user group	N/A	String, case-insensitive. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters.	Form: user-group-name, user-group-name@domain-name. The domain name cannot contain any of the following characters: \ / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be d, de, def, defa, defau, defaul, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/IPv6UserGrp

This table contains user group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv6UserGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.	N/A
SeqNum	Sequence number	Index	Unassigned integer. Value range: 1 to 1024.	This column is insignificant. Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: - true—Yes. - false—No (default).	N/A
NameList	Name of the user group list	Data structure	Members include: NameItem	N/A
NameItem	Name of the user group	N/A	String, case-insensitive. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters.	Form: user-group-name, user-group-name@domain-name. The domain name cannot contain any of the following characters: \ / : * ? < > @. For versions B64D025 and B64D026, the domain name cannot be d , de , def , defa , defau , defaul , default , i , if , if- , if-u , if-un , if-unk , if-unkn , if-unkno , if-unknow , or if-unknown . If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/Accelerate

This table contains rule matching acceleration information for security policies.

XML structure

```
<SecurityPolicies>
  <Accelerate>
    <Enable></Enable>
  </Accelerate>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable rule matching acceleration for the security policy.	N/A	Boolean: - true—Enable (default). - false—Disable.	Optional.

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SecurityPolicies

SecurityPolicies/IPv4Rules

This table contains IPv4 rule information.

XML structure

```
<SecurityPolicies>
  <IPv4Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Count></Count>
      <Byte></Byte>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
    </Rule>
  </IPv4Rules>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: 1—Deny. 2—Permit.
VRF	VRF name.	N/A	String, case-sensitive. Length: 1 to 31 characters.
TimeRange	Name of the time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
TimeRangeState	Status of the time range.	N/A	Boolean: - true—Effective. - false—Not effective.
Enable	Whether to enable the rule.	N/A	Boolean: - true—Enable. - false—Disable.
Log	Whether to enable logging.	N/A	Boolean: - true—Enable. - false—Disable.
Counting	Whether to enable counting.	N/A	Boolean: - true—Enable. - false—Disable.
Comment	Description.	N/A	String. Length: 1 to 127 characters.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to $2^{64}-1$.
Byte	Bytes of packets	N/A	N/A
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
SessAgingTimeSw	Whether to enable the session aging timer.	N/A	Boolean: - true—Enable. - false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether to enable the persistent session aging timer.	N/A	Boolean: - true—Enable. - false—Disable.

SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
----------------------	---------------------------------------	-----	---

SecurityPolicies/IPv6Rules

This table contains IPv6 rule information.

XML structure

```

<SecurityPolicies>
  <IPv6Rules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <VRF></VRF>
      <TimeRange></TimeRange>
      <TimeRangeState></TimeRangeState>
      <Enable></Enable>
      <Log></Log>
      <Counting></Counting>
      <Comment></Comment>
      <Count></Count>
      <Byte></Byte>
      <Profile></Profile>
      <SessAgingTimeSw></SessAgingTimeSw>
      <SessAgingTime></SessAgingTime>
      <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
      <SessPersistAgingTime></SessPersistAgingTime>
    </Rule>
  </IPv6Rules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID.	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
RuleName.	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action.	Action for the rule	N/A	Enumeration: 1—Deny. 2—Permit.
VRF.	VRF name	N/A	String, case-sensitive. Length: 1 to 31 characters.
TimeRange.	Name of the time range	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
TimeRangeState	Status of the time range.	N/A	Boolean: - true—Effective. - false—Not effective.
Enable.	Whether to enable the rule	N/A	Boolean: - true—Enable. - false—Disable.
Log.	Whether to enable logging	N/A	Boolean: - true—Enable. - false—Disable.
Counting.	Whether to enable counting	N/A	Boolean: - true—Enable. - false—Disable.
Comment.	Description	N/A	String. Length: 1 to 127 characters.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to $2^{64}-1$.
Byte	Bytes of packets	N/A	N/A
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
SessAgingTimeSw.	Whether to enable the session aging timer	N/A	Boolean: - true—Enable. - false—Disable.
SessAgingTime.	Session aging time period	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw.	Whether to enable the persistent session aging timer.	N/A	Boolean: - true—Enable. - false—Disable.

SessPersistAgingTime.	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
-----------------------	---------------------------------------	-----	---

SecurityPolicies/GetRules

This table contains rule information.

XML structure

```

<SecurityPolicies>
  <GetRules>
    <Rule>
      <Type></Type>
      <ID></ID>
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
      <SrcMacAddrList>
        <SrcMacAddrItem></SrcMacAddrItem>
      </SrcMacAddrList>
      <ServGrpList>
        <ServGrpItem></ServGrpItem>
      </ServGrpList>
      <AppList>
        <AppItem></AppItem>
      </AppList>
      <AppGrpList>
        <AppGrpItem></AppGrpItem>
      </AppGrpList>
      <UserList>
        <UserItem></UserItem>
      </UserList>
      <UserGrpList>
        <UserGrpItem></UserGrpItem>
      </UserGrpList>
    </Rule>
  </GetRules>
</SecurityPolicies>

```

```

    <TimeRange></TimeRange>
    <VRF></VRF>
    <Profile></Profile>
    <Enable></Enable>
    <Log></Log>
    <Counting></Counting>
    <Count></Count>
    <Byte></Byte>
    <SessAgingTimeSw></SessAgingTimeSw>
    <SessAgingTime></SessAgingTime>
    <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
    <SessPersistAgingTime></SessPersistAgingTime>
    <AllRulesCount></AllRulesCount>
    <Comment></Comment>
  </Rule>
</GetRules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	GetRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: 1—IPv4. 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
Name	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: 1—Deny. 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: SrcZoneItem

SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneList	Name of the destination zone list	Data structure	Members include: • DestZoneItem
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrList	Name of the source address list.	Data structure	Members include: • SrcAddrItem
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrList	Name of the destination address list.	Data structure	Members include: • DestAddrItem
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: • SrcMacAddrItem
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpList	Name of the service group list.	Data structure	Members include: • ServGrpItem
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
AppList	Name of the application list	Data structure	Members include: • AppItem
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
UserList	Name of the user list	Data structure	Members include: • UserItem
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserGrpList	Name of the user group list	Data structure	Members include: • UserGrpItem
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name.

			Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).
TimeRange	Name of the time range.	N/A	String. Length: 1 to 32 characters.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Enable	Whether the rule is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to $2^{64}-1$.
Byte	Bytes of packets	N/A	N/A
SessAgingTimeSw	Whether the session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether the persistent session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
AllRulesCount	The number of all security policy rules	N/A	N/A
Comment	Description.	N/A	String. Length: 1 to 127 characters.

SecurityPolicies/QueryRules

This table queries rule information.

XML structure

```
<SecurityPolicies>
  <QueryRules>
    <Rule>
      <Type></Type>
      <ID></ID>
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
      <SrcMacAddrList>
        <SrcMacAddrItem></SrcMacAddrItem>
      </SrcMacAddrList>
      <ServGrpList>
        <ServGrpItem></ServGrpItem>
      </ServGrpList>
      <AppList>
        <AppItem></AppItem>
      </AppList>
      <AppGrpList>
        <AppGrpItem></AppGrpItem>
      </AppGrpList>
      <UserList>
        <UserItem></UserItem>
      </UserList>
      <UserGrpList>
        <UserGrpItem></UserGrpItem>
      </UserGrpList>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Profile></Profile>
      <Enable></Enable>
      <Log></Log>
```

```

    <Counting></Counting>
    <Count></Count>
    <Byte></Byte>
    <SessAgingTimeSw></SessAgingTimeSw>
    <SessAgingTime></SessAgingTime>
    <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
    <SessPersistAgingTime></SessPersistAgingTime>
    <AllRulesCount></AllRulesCount>
    <Comment></Comment>
  </Rule>
</QueryRules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	QueryIPv4Rules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: 1—IPv4. 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
Name	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Action	Action for the rule.	N/A	Enumeration: 1—Deny. 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: SrcZoneItem
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneList	Name of the destination zone list	Data structure	Members include: DestZoneItem

DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrList	Name of the source address list.	Data structure	Members include: • SrcAddrItem
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrList	Name of the destination address list.	Data structure	Members include: • DestAddrItem
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrList	Name of the source IPv4 MAC address list.	Data structure	Members include: • SrcMacAddrItem
SrcMacAddrItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpList	Name of the service group list.	Data structure	Members include: • ServGrpItem
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
AppList	Name of the application list	Data structure	Members include: • AppItem
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpList	Name of the application group list	Data structure	Members include: • AppGrpItem
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
UserList	Name of the user list	Data structure	Members include: • UserItem
UserItem	Name of the user	N/A	String, case-insensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.
UserGrpList	Name of the user group list	Data structure	Members include: • UserGrpItem
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

TimeRange	Name of the time range.	N/A	String. Length: 1 to 32 characters.
VRF	VRF name.	N/A	String. Length: 1 to 31 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.
Enable	Whether the rule is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
Count	Count of matches.	N/A	Unassigned integer. Value range: 0 to $2^{64}-1$.
Byte	Bytes of packets	N/A	N/A
SessAgingTimeSw	Whether the session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessAgingTime	Session aging time period.	N/A	Unsigned integer. Value range: 0 to 2000000 seconds.
SessPersistAgingTimeSw	Whether the persistent session aging timer is enabled.	N/A	Boolean: • true—Enable. • false—Disable.
SessPersistAgingTime	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000 hours. 0 indicates that the timer never ages out.
AllRulesCount	The number of all security policy rules	N/A	N/A
Comment	Description.	N/A	String. Length: 1 to 127 characters.

SecurityPolicies/IPv4SrcSecZone

This table contains source security zone information for an existing security policy rule.

XML structure

```
<SecurityPolicies>
```

```

<IPv4SrcSecZone>
  <SrcSecZone>
    <ID></ID>
    <SeqNum></SeqNum>
    <IsIncrement></IsIncrement>
    <NameList>
      <NameItem></NameItem>
    </NameList>
  </SrcSecZone>
</IPv4SrcSecZone>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source security zone list	Data structure	Members include: • NameItem
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6SrcSecZone

This table contains source security zone information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcSecZone>
    <SrcSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </IPv6SrcSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZone
Table type	Multi-instance table
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source security zone list	Data structure	Members include: • NameItem
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4DestSecZone

This table contains destination security zone information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv4DestSecZone>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination security zone list	Data structure	Members include: • NameItem

NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
----------	---------------------------------------	-----	--

SecurityPolicies/IPv6DestSecZone

This table contains destination security zone information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6DestSecZone>
    <DestSecZone>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </IPv6DestSecZone>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSecZone
Table type	Multi-instance table
Row name	DestSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 16.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.

NameList	Name of the destination security zone list	Data structure	Members include: NameItem
NameItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4SrcAddr

This table contains source address object group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </IPv4SrcAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer.

			Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv4 address list	Data structure	Members include: NameItem
NameItem	Name of the source IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6SrcAddr

This table contains source address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6SrcAddr>
    <SrcAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </IPv6SrcAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddr
Table type	Multi-instance table
Row name	SrcAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer.

			Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv6 address list	Data structure	Members include: • NameItem
NameItem	Name of the source IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4DestAddr

This table contains destination address object group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv4DestAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddr
Table type	Multi-instance table
Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination IPv4 address list	Data structure	Members include: • NameItem
NameItem	Name of the destination IPv4 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6DestAddr

This table contains destination address object group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestAddr>
    <DestAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </IPv6DestAddr>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddr
Table type	Multi-instance table

Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the destination IPv6 address list	Data structure	Members include: NameItem
NameItem	Name of the destination IPv6 address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4SrcMacAddr

This table contains source MAC address object group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4SrcMacAddr>
    <SrcMacAddr>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcMacAddr>
  </IPv4SrcMacAddr>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddr
Table type	Multi-instance table
Row name	SrcMacAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the source IPv4 MAC address list	Data structure	Members include: • NameItem
NameItem	Name of the source IPv4 MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4ServGrp

This table contains service object group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </ServGrp>
  </IPv4ServGrp>
</SecurityPolicies>
```

```

    </ServGrp>
  </IPv4ServGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the service object group list	Data structure	Members include: NamelItem
NamelItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv6ServGrp

This table contains service object group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6ServGrp>
    <ServGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>

```

```

        <NameItem></NameItem>
    </NameList>
</ServGrp>
</IPv6ServGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrp
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the service object group list	Data structure	Members include: • NameItem
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.

SecurityPolicies/IPv4App

This table contains application information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4App>
    <App>
      <ID></ID>
      <SeqNum></SeqNum>
    </App>
  </IPv4App>
</SecurityPolicies>

```

```

    <IsIncrement></IsIncrement>
    <NameList>
      <NameItem></NameItem>
    </NameList>
  </App>
</IPv4App>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4App
Table type	Multi-instance table
Row name	App
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application list	Data structure	Members include: NameItem
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6App

This table contains application information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6App>
    <App>

```

```

<ID></ID>
<SeqNum></SeqNum>
<IsIncrement></IsIncrement>
<NameList>
  <NameItem></NameItem>
</NameList>
</App>
</IPv6App>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6App
Table type	Multi-instance table
Row name	App
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application list	Data structure	Members include: NameItem
NameItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv4AppGrp

This table contains application group information for an existing IPv4 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv4AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application group list	Data structure	Members include: • NameItem
NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/IPv6AppGrp

This table contains application group information for an existing IPv6 security policy rule.

XML structure

```
<SecurityPolicies>
  <IPv6AppGrp>
    <AppGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </AppGrp>
  </IPv6AppGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrp
Table type	Multi-instance table
Row name	AppGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the application group list	Data structure	Members include: • NameItem

NameItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
----------	-------------------------------	-----	--

SecurityPolicies/IPv4User

This table contains user information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </User>
  </IPv4User>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4User
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.

NameList	Name of the user list	Data structure	Members include: NameItem.
NameItem	Name of the user	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.

SecurityPolicies/IPv6User

This table contains user information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6User>
    <User>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </User>
  </IPv6User>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6User
Table type	Multi-instance table
Row name	User
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.

SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user list	Data structure	Members include: NameItem
NameItem	Name of the user	N/A	String, case-sensitive. Form: user-name, user-name@domain-name. User name length: 1 to 55 characters. Domain name length: 1 to 255 characters.

SecurityPolicies/IPv4UserGrp

This table contains user group information for an existing IPv4 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv4UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv4UserGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user group list	Data structure	Members include: NameItem
NameItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/IPv6UserGrp

This table contains user group information for an existing IPv6 security policy rule.

XML structure

```

<SecurityPolicies>
  <IPv6UserGrp>
    <UserGrp>
      <ID></ID>
      <SeqNum></SeqNum>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </UserGrp>
  </IPv6UserGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrp
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
SeqNum	Sequence Number	Index	Unassigned integer. Value range: 1 to 1024.
IsIncrement	Whether to increment the data	N/A	This column is insignificant. Ignore the value in this column.
NameList	Name of the user group list	Data structure	Members include: • NameItem
NameItem	Name of the user group	N/A	String, case-insensitive. Form: user-group-name, user-group-name@domain-name. Group name length: 1 to 32 characters. Domain name length: 1 to 255 characters. If you want to contain a backslash (\) or an at sign (@) in the user group name, you must enter the escape character (\) before the backslash (\) or at sign (@).

SecurityPolicies/AllocRuleID

This table contains an available rule ID.

XML structure

```
<SecurityPolicies>
  <AllocRuleID>
    <Rule>
      <Type></Type>
      <ID></ID>
```

```

    </Rule>
  </AllocRuleID>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AllocRuleID
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: 1—IPv4. 2—IPv6.
ID	Rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.

SecurityPolicies/Accelerate

This table contains security policy rule matching acceleration information for security policies.

XML structure

```

<SecurityPolicies>
  <Accelerate>
    <Enable></Enable>
  </Accelerate>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Whether to enable rule matching acceleration for the security policy.	N/A	Boolean: - true—Enable. - false—Disable.

SecurityPolicies/GetAccelerateCommitStatus

This table contains acceleration commit status information for the security policy.

XML structure

```
<SecurityPolicies>
  <GetAccelerateCommitStatus>
    <Status></Status>
  </GetAccelerateCommitStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	Accelerate
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Whether to enable rule acceleration for the security policy.	N/A	Boolean: - true—Enable. - false—Disable.	Optional.

SecurityPolicies/BaseProtocols

This table contains base protocol informations for the existing applications and application-groups within a security policy rule.

XML structure

```
<SecurityPolicies>
  <BaseProtocols>
    <Protocol>
      <Type></Type>
      <ID></ID>
      <ProtoNum></ProtoNum>
      <AppNum></AppNum>
      <ProtocolItem></ProtocolItem>
      <NameList>
        <AppItem></AppItem>
      </NameList>
    </Protocol>
  </BaseProtocols>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	BaseProtocols
Table type	Multi-instance table
Row name	Protocol
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	Rule Type	Index	Enumeration: 1—IPv4. 2—IPv6.
ID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
ProtoNum	Protocol Number	Index	Unassigned integer. Value range: 1 to 1024.

AppNum	Application Number	Index	Unassigned integer. Value range: 1 to 1024.
ProtocolItem	Name of the protocol	N/A	String, case-insensitive. Length: 1 to 63 characters.
NameList	Name of the applicaton list	Data structure	Members include: • ApplItem
ApplItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

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SecurityZone

SecurityZone/Zones

This table contains the information about the security zone.

XML structure

```
<SecurityZone>
  <Zones>
    <Zone>
      <Name></Name>
    </Zone>
  </Zones>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Zones
Table type	Multi-instance table
Row name	Zone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).

SecurityZone/ZonePairs

This table contains the information about the security zone pair.

XML structure

```
<SecurityZone>
  <ZonePairs>
    <ZonePair>
      <SrcZone></SrcZone>
    </ZonePair>
  </ZonePairs>
</SecurityZone>
```

```

        <DestZone></DestZone>
    </ZonePair>
</ZonePairs>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	ZonePairs
Table type	Multi-instance table
Row name	ZonePair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
SrcZone	Source security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
DestZone	Destination security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).

SecurityZone/Interfaces

The table contains the interface member information of security zone.

XML structure

```

<SecurityZone>
  <Interfaces>
    <Interface>
      <ZoneName></ZoneName>
      <IfIndex></IfIndex>
      <VlanList></VlanList>
    </Interface>
  </Interfaces>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
IfIndex	Interface index	Index	Unsigned integer.	Applicable to only layer 2 and layer 3 interface.
VlanList	The VLANs that the interface belongs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A

SecurityZone/VLANs

The table contains the VLAN interface information of the security zone.

XML structure

<SecurityZone>

```

<VLANs>
  <VLAN>
    <ZoneName></ZoneName>
    <VlanList></VlanList>
  </VLAN>
</VLANs>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
VlanList	List of VLAN	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A

SecurityZone/ServicePaths

The table contains the service path member information of security zone.

XML structure

```
<SecurityZone>
  <ServicePaths>
    <ServicePath>
      <ZoneName></ZoneName>
      <ServicePathID></ServicePathID>
      <Reverse></Reverse>
    </ServicePath>
  </ServicePaths>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServicePaths
Table type	Multi-instance table
Row name	ServicePath
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
ServicePathID	Service path ID	Index	Unsigned integer.	N/A
Reverse	Reverse tag	Index	Boolean: - true - false	N/A

SecurityZone/VsipFilterSwitch

This table contains information about filtering traffic based on virtual service IP address.

XML structure

```
<SecurityZone>
  <VsipFilterSwitch>
    <EnableVsipFilter></EnableVsipFilter>
  </VsipFilterSwitch>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	VsipFilterSwitch
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
EnableVsipFilter	Whether to enable filtering based on virtual service IP address.	N/A	Boolean: • true—Enable the filtering feature. • false—Disable the filtering feature (default).

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XML structure	5
Table description	6
Columns	6
SecurityZone/VsipFilterSwitch	6
XML structure	6
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Columns	7

SecurityZone

SecurityZone/Capabilities

This table contains the capabilities information of the security zone.

XML structure

```
<SecurityZone>
  <Capabilities>
    <L3Interface></L3Interface>
    <L2Interface></L2Interface>
    <VLAN></VLAN>
    <IP></IP>
    <ServicePath></ServicePath>
  </Capabilities>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
L3Interface	Whether layer 3 interface member is supported.	N/A	Boolean: - true - false	N/A
L2Interface	Whether layer 2 interface member is supported.	N/A	Boolean: true false	N/A
VLAN	Whether VLAN member is supported.	N/A	Boolean: - true - false	N/A
IP	Whether IP member is supported.	N/A	Boolean: - true - false	N/A

Column name	Column description	Column type	Data type and restrictions	Remark
ServicePath	Whether service path member is supported.	N/A	Boolean: - true - false	N/A

SecurityZone/Zones

This table contains security zone information.

XML structure

```

<SecurityZone>
  <Zones>
    <Zone>
      <Name></Name>
      <ID></ID>
    </Zone>
  </Zones>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	Zones
Table type	Multi-instance table
Row name	Zone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
Name	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
ID	Security zone ID	N/A	Unsigned integer. Value range: 0 to 10100	N/A

SecurityZone/ZonePairs

This table contains security zone pair information.

XML structure

```
<SecurityZone>
  <ZonePairs>
    <ZonePair>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
    </ZonePair>
  </ZonePairs>
</SecurityZone>
```

Table description

Item	Description
Feature name	SecurityZone
Table name	ZonePairs
Table type	Multi-instance table
Row name	ZonePair
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
SrcZone	Source security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
DestZone	Destination security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).

SecurityZone/Interfaces

The table contains the interface member information of security zone.

XML structure

```
<SecurityZone>
  <Interfaces>
    <Interface>
      <ZoneName></ZoneName>
      <IfIndex></IfIndex>
      <VlanList></VlanList>
    </Interface>
  </Interfaces>
</SecurityZone>
```

```

    </Interface>
  </Interfaces>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
IfIndex	Interface index	Index	Unsigned integer.	Applicable to only layer 2 and layer 3 interface.
VlanList	The VLANs that the interface belongs	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A

SecurityZone/VLANs

The table contains the VLAN member information of the security zone.

XML structure

```

<SecurityZone>
  <VLANs>

```

```

    <VLAN>
      <ZoneName></ZoneName>
      <VlanList></VlanList>
    </VLAN>
  </VLANs>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
VlanList	List of VLANs	Index	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	N/A

SecurityZone/ServicePaths

The table contains the service path member information of security zone.

XML structure

```

<SecurityZone>
  <ServicePaths>
    <ServicePath>
      <ZoneName></ZoneName>
    </ServicePath>
  </ServicePaths>
</SecurityZone>

```



```

    <ServicePathID></ServicePathID>
    <Reverse></Reverse>
  </ServicePath>
</ServicePaths>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	ServicePaths
Table type	Multi-instance table
Row name	ServicePath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
ZoneName	Security zone name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains no midline(-).
ServicePathID	Service path ID	Index	Unsigned integer.	N/A
Reverse	Reverse tag	Index	Boolean: - true - false	N/A

SecurityZone/VsipFilterSwitch

This table contains information about filtering traffic based on virtual service IP address.

XML structure

```

<SecurityZone>
  <VsipFilterSwitch>
    <EnableVsipFilter></EnableVsipFilter>
  </VsipFilterSwitch>
</SecurityZone>

```

Table description

Item	Description
Feature name	SecurityZone
Table name	VsipFilterSwitch
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
EnableVsipFilter	Whether filtering based on virtual service IP address is enabled.	N/A	Boolean: • true—Enabled. • false—Disabled.

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XML structure	3
Table description	3
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SRVCHN

SRVCHN/Paths

This table contains service chain service path information.

XML structure

```
<SRVCHN>
  <Paths>
    <Path>
      <PathID></PathID>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <NextHop></NextHop>
      <PrevHop></PrevHop>
    </Path>
  </Paths>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	N/A
ACLNumber	Number of the ACL sent by the local device	N/A	Unsigned integer. Value range: 2000 to 3999.	Only one of the ACLNumber and ACLName columns can be set in a single message. Support for this column depends on the device model

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLName	Name of the ACL sent by the local device	N/A	String, case-insensitive. Length: 1 to 63 characters.	Only one of the ACLNumber and ACLName columns can be set in a single message. Support for this column depends on the device model
NextHop	IP address of next service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1
PrevHop	IP address of previous service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1

SRVCHN/IfMatches

This table contains service chain If-Match instances information. Support for this table depends on the device model

XML structure

```

<SRVCHN>
  <IfMatches>
    <IfMatch>
      <PathID></PathID>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </IfMatch>
  </IfMatches>
</SRVCHN>

```

Table description

Item	Description
Feature name	SRVCHN
Table name	IfMatches
Table type	Multi-instance table
Row name	IfMatch
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	This service-chain path must be exist before configuring IfMatches table.
IfIndex	Interface index	Index	Unsigned integer.	Specify an interface by ifIndex. Only Layer 3 interfaces are supported.
ACLNumber	ACL number	N/A	Unsigned integer Value range:2000 to 3999	Specify an ACL by its number. Only one of the ACLNumber and ACLName columns can be set in a single message.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Specify an ACL by its name. Only one of the ACLNumber and ACLName columns can be set in a single message.

SRVCHN/Funcs

This table contains service chain service function information.

XML structure

```
<SRVCHN>
  <Funcs>
    <Func>
      <PathID></PathID>
      <FuncID></FuncID>
      <LBTeamName></LBTeamName>
      <SrvList></SrvList>
    </Func>
  </Funcs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Funcs
Table type	Multi-instance table

Item	Description
Row name	Func
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	This service-chain path must be exist before configuring Funcs table.
FuncID	Function ID	Index	Unsigned integer. Value range: 1 to 255.	Specify a service function by its number. FuncID can only be 1 when the device does not support load balancing team configurations.
LBTeamName	Load balancing team name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Specify a load balancing team by its name. Support for this column depends on the device model
SrvList	List of services	N/A	String, case-insensitive. Length: 1 to 255 characters.	Different services combinations are separated by spaces ' '. The combinations are matched by the configuration order defined in the SrvList column for inter-device packets. Example: ACG DPI FW IPS IPSEC NAT LB

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XML structure	3
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SRVCHN/Specification	4
XML structure	4
Table description	5
Columns	5

SRVCHN

SRVCHN/Paths

This table contains service chain service path information.

XML structure

```
<SRVCHN>
  <Paths>
    <Path>
      <PathID></PathID>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <NextHop></NextHop>
      <PrevHop></PrevHop>
    </Path>
  </Paths>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Paths
Table type	Multi-instance table
Row name	Path
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	N/A
ACLNumber	Number of the ACL sent by the local device	N/A	Unsigned integer. Value range: 2000 to 3999.	Only one of the ACLNumber and ACLName columns can be set in a single message. Support for this column depends on the device model

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLName	Name of the ACL sent by the local device	N/A	String, case-insensitive. Length: 1 to 63 characters.	Only one of the ACLNumber and ACLName columns can be set in a single message. Whether or not support this column's configuration depends on the device model.
NextHop	IP address of the next service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1
PrevHop	IP address of the previous service node	N/A	String, dotted decimal notation.	Default: 0.0.0.0 Example: 1.1.1.1

SRVCHN/IfMatches

This table contains service chain If-Match instances information. Support for this table depends on the device model.

XML structure

```

<SRVCHN>
  <IfMatches>
    <IfMatch>
      <PathID></PathID>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
    </IfMatch>
  </IfMatches>
</SRVCHN>

```

Table description

Item	Description
Feature name	SRVCHN
Table name	IfMatches
Table type	Multi-instance table
Row name	IfMatch
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	This service-chain path must exist before configuring IfMatches table.
IfIndex	Interface index	Index	Unsigned integer.	Specify an interface by ifIndex. Only Layer 3 interfaces are supported.
ACLNumber	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	Specifies an ACL by its number. Only one of the ACLNumber and ACLName columns can be set in a single message.
ACLName	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Specifies an ACL by its name. Only one of the ACLNumber and ACLName columns can be set in a single message.

SRVCHN/Funcs

This table contains service chain service function information.

XML structure

```
<SRVCHN>
  <Funcs>
    <Func>
      <PathID></PathID>
      <FuncID></FuncID>
      <LBTeamName></LBTeamName>
      <SrvList></SrvList>
    </Func>
  </Funcs>
</SRVCHN>
```

Table description

Item	Description
Feature name	SRVCHN
Table name	Funcs
Table type	Multi-instance table

Item	Description
Row name	Func
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PathID	Path ID	Index	Unsigned integer. Value range: 1 to 8388606.	This service-chain path must be exist before configuring Funcs table.
FuncID	Function ID	Index	Unsigned integer. Value range: 1 to 255.	Specify a service function by its number. FuncID can only be 1 when the device does not support load balancing team configurations.
LBTeamName	Load balancing team name	N/A	String, case-sensitive. Length: 1 to 63 characters.	Specify a load balancing team by its name. Support for this column depends on the device model
SrvList	List of services	N/A	String, case-insensitive. Length: 1 to 255 characters.	Different services combinations are separated by spaces ' '. The combinations are matched by the configuration order defined in the SrvList column for inter-device packets. Reference: ACG DPI FW IPS IPSEC LB NAT.

SRVCHN/Specification

This table contains service chain service option information.

XML structure

```

<SRVCHN>
  <Specification>
    <SupportLBGroup></SupportLBGroup>
  </Specification>
</SRVCHN>

```

Table description

Item	Description
Feature name	SRVCHN
Table name	Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportLBGroup	Supports load balancing team configurations.	N/A	Boolean: • true. • false.

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Session

Session/SessionStatistics

This table contains statistics of sessions.

XML structure

```
<Session>
  <SessionStatistics>
    <SessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Clear></Clear>
    </SessionStatistic>
  </SessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	SessionStatistics
Table type	Multi-instance table
Row name	SessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ClearAllSessionStatistics

Clear all statistics of sessions.

XML structure

```
<Session>
  <ClearAllSessionStatistics>
    <Clear></Clear>
  </ClearAllSessionStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearAllSessionStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ExportIpv4Table

This table exports ipv4 session information to a file according to the specified conditions.

XML structure

```
<Session>
  <ExportIpv4Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <InitVRF></InitVRF>
      <IP4SourceIp></IP4SourceIp>
      <IP4SourcePort></IP4SourcePort>
      <IP4DestinationIp></IP4DestinationIp>
    </Session_Export>
  </ExportIpv4Table>
</Session>
```



```

    <IP4DestinationPort></IP4DestinationPort>
    <ProtocolType></ProtocolType>
    <FileName></FileName>
  </Session_Export>
</ExportIpv4Table>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv4Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
InitVRF	VRF of the initiator.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IP4SourceIp	Source Ip	Index	Ipv4Address.	N/A
IP4SourcePort	Source Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IP4DestinationIp	Destination Ip	Index	Ipv4 Address.	N/A
IP4DestinationPort	Destination Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ProtocolType	Transport layer protocol id of the packet from the initiator to the responder.	Index	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			7—RAWIP. 8—ALL.	
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Session/ExportIpv6Table

This table exports ipv6 session information to a file according to the specified conditions.

XML structure

```

<Session>
  <ExportIpv6Table>
    <Session_Export>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <InitVRF></InitVRF>
      <IP6SourceIp></IP6SourceIp>
      <IP6SourcePort></IP6SourcePort>
      <IP6DestinationIp></IP6DestinationIp>
      <IP6DestinationPort></IP6DestinationPort>
      <ProtocolType></ProtocolType>
      <FileName></FileName>
    </Session_Export>
  </ExportIpv6Table>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ExportIpv6Table
Table type	Multi-instance table
Row name	Session_Export
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
InitVRF	VRF of the initiator.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IP6SourceIp	Source Ip	Index	Ipv6 Address.	N/A
IP6SourcePort	Source Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
IP6DestinationIp	Destination Ip	Index	Ipv6 Address.	N/A
IP6DestinationPort	Destination Port	Index	Unsigned integer. Value range: 0 to 65535.	N/A
ProtocolType	Transport layer protocol id of the packet from the initiator to the responder.	Index	Enumeration: 0—TCP. 1—UDP. 2—ICMP. 3—ICMPv6. 4—UDP-Lite. 5—SCTP. 6—DCCP. 7—RAWIP. 8—ALL.	N/A
FileName	File Name	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Session/ClearIpv4Sessions

Clear IPv4 sessions which meet the conditions.

XML structure

```

<Session>
  <ClearIpv4Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
    </Session>
  </ClearIpv4Sessions>
</Session>

```

```

<Type></Type>
<SessionFwdType></SessionFwdType>
<InitVRF></InitVRF>
<InitSourceIp></InitSourceIp>
<InitSourcePort></InitSourcePort>
<InitDestinationIp></InitDestinationIp>
<InitDestinationPort></InitDestinationPort>
<InitDSLiteTunnelPeer></InitDSLiteTunnelPeer>
<InitProtocol></InitProtocol>
<InitEnProtocol></InitEnProtocol>
<Clear></Clear>
<StopTime></StopTime>
<TimeRangeStart></TimeRangeStart>
<TimeRangeEnd></TimeRangeEnd>
<Application></Application>
<Interface></Interface>
<SrcZone></SrcZone>
<DstZone></DstZone>
<EnState></EnState>
<RuleName></RuleName>
<SessionDir></SessionDir>
</Session>
</ClearIpv4Sessions>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ClearIpv4Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Moudle	Type of the module which created the session.	N/A	Enumeration: • 0—NAT. • 1—CONNECTION-LIMIT • 2—LB. • 3—ASPF. • 4—LOG. • 5—ALG • 6—DS-Lite • 7—TCP MSS • 8—Application of statistical • 9—Inter-zone strategy • 10—WAAS • 11—TCP serial number to check • 12—AFT • 13—DIM Engine processing • 14—TCP Engine restructuring • 15—Traffic log	N/A
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: • 0—VRF instance name. • 1—VLAN ID. • 2—Inline ID.	N/A
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	N/A
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	N/A
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the initiator. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	Hexadecimal string, colon-separated.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP • 2—ICMP • 3—ICMPv6. • 4—UDP-Lite • 5—SCTP • 6—DCCP • 7—RAWIP	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A
StopTime	The time of stopping a specified session's flow.	N/A	Unsigned integer. Value range: 5 to 1000000 seconds.	N/A
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Application	Application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Interface	Interface name.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
SrcZone	Source security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstZone	Destination security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 16—ICMP_REQUEST. • 17—ICMP_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECV. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	N/A
RuleName	Security policy rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder.	N/A

Session/ClearIpv6Sessions

Clear IPv6 sessions which meet the conditions.

XML structure

```
<Session>
  <ClearIpv6Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitProtocol></InitProtocol>
      <InitEnProtocol></InitEnProtocol>
      <Clear></Clear>
      <StopTime></StopTime>
      <TimeRangeStart></TimeRangeStart>
      <TimeRangeEnd></TimeRangeEnd>
      <Application></Application>
      <Interface></Interface>
      <SrcZone></SrcZone>
      <DstZone></DstZone>
      <EnState></EnState>
      <RuleName></RuleName>
      <SessionDir></SessionDir>
    </Session>
  </ClearIpv6Sessions>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearIpv6Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Moudle	Type of the module which created the session.	N/A	Enumeration: 0—NAT. 1—CONNECTION-LIMIT 2—LB. 3—ASPF. 4—LOG. 5—ALG 6—DS-Lite 7—TCP MSS 8—Application of statistical 9—Inter-zone strategy 10—WAAS 11—TCP serial number to check 12—AFT 13—DIM Engine processing 14—TCP Engine restructuring 15—Traffic log	N/A
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: 0—VRF instance name. 1—VLAN ID. 2—Inline ID.	N/A
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance

Column name	Column description	Column type	Data type and restrictions	Remarks
				name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	N/A
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	N/A
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP • 2—ICMP • 3—ICMPv6. 4—UDP-Lite • 5—SCTP • 6—DCCP • 7—RAWIP	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A
StopTime	The time of stopping a specified session's flow.	N/A	Unsigned integer. Value range: 5 to 1000000 seconds.	N/A
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Application	Application layer protocol.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Interface	Interface name.	N/A	String, case-insensitive. Length: 2 to 47 characters.	N/A
SrcZone	Source security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstZone	Destination security zone name.	N/A	String, case-insensitive. Length: 1 to 31 characters	N/A
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 18—ICMPV6_REQUEST. • 19—ICMPV6_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECV. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	N/A
RuleName	Security policy name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder.	N/A

Session/ConnectionLimit/GlobalStatistics

This table contains connection limit global statistics.

XML structure

```
<Session>
  <ConnectionLimit>
    <GlobalStatistics>
      <GlobalStatistic>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Clear></Clear>
      </GlobalStatistic>
    </GlobalStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	GlobalStatistics
Table type	Multi-instance table
Row name	GlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/ClearAllGlobalStatistics

Clear all connection limit global statistics.

XML structure

```
<Session>
  <ConnectionLimit>
    <ClearAllGlobalStatistics>
      <Clear></Clear>
    </ClearAllGlobalStatistics>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ClearAllGlobalStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/InterfaceStatistics

This table contains connection limit statistics on interfaces.

XML structure

```
<Session>
  <ConnectionLimit>
    <InterfaceStatistics>
      <InterfaceStatistic>
        <IfIndex></IfIndex>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
```

```

    <Clear></Clear>
  </InterfaceStatistic>
</InterfaceStatistics>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Clear	Resets counters.	N/A	This column must be empty.	N/A

Session/ConnectionLimit/ClearAllInterfaceStatistics

Clear all connection limit statistics on an interface.

XML structure

```

<Session>
  <ConnectionLimit>
    <ClearAllInterfaceStatistics>

```

```

    <InterfaceStatistic>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </InterfaceStatistic>
  </ClearAllInterfaceStatistics>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ClearAllInterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Clear	Resets counters.	N/A	This column must be empty.	N/A

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Session

Session/Ipv4Persistent

This table contains IPv4 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv4Persistence table for IPv4 persistent configuration.

XML structure

```
<Session>
  <Ipv4Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv4Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistent
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never ageing. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/Ipv6Persistent

This table contains IPv6 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv6Persistence table for IPv6 persistent configuration.

XML structures

```
<Session>
  <Ipv6Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv6Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistent
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never ageing. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/Ipv4Persistence

This table contains IPv4 persistent sessions' information.

XML structure

```
<Session>
  <Ipv4Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv4Persistence>
</Session>
```

```

    </Ipv4Persistence>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when <i>ACLNumber</i> is configured.

Session/Ipv6Persistence

This table contains IPv6 persistent sessions' information.

XML structures

```

<Session>
  <Ipv6Persistence>
    <Persistent>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistent>
  </Ipv6Persistence>
</Session>

```

Table description

Item	Description
Feature name	Session

Table name	Ipv6Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when <i>ACLNumber</i> is configured.

Session/L4StateAgingTime

This table contains the aging time for the sessions in transport layer protocol states.

XML structure

```

<Session>
  <L4StateAgingTime>
    <AgingTime>
      <StateID></StateID>
      <TimeValue></TimeValue>
    </AgingTime>
  </L4StateAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	L4StateAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StateID	Transport layer protocol state ID.	Index	Unsigned integer. Value range: 0 to 20. 0—SYN-SENT and SYN-RCV (TCP) 1—ESTABLISHED (TCP). 2—FIN-WAIT (TCP). 3—UDP-OPEN. 4—UDP-READY. 5—ICMP -REQUEST. 6—ICMP -REPLY. 7—RAWIP-OPEN. 8—RAWIP-READY. 9—UDPLITE-OPNE. 10—UDPLITE-READY. 11—DCCP-REQUEST. 12—DCCP-EST. 13—DCCP-CLOSEREQ. 14—SCTP-INIT. 15—SCTP-EST. 16—SCTP-SHUTDOWN. 17—ICMPV6-REQUEST. 18—ICMPV6-REPLAY. 19—TCP-TIME-WAIT. 20—TCP-CLOSE.	The aging time can be configured if is the protocol ID is 0 to 8, 19, or 20. The aging time for other protocols uses the default value.
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range: 5 to 100000 seconds. Default aging time for sessions in different protocol states is as follows: 0—SYN-SENT or SYN-RCV (TCP) : 30 1—ESTABLISHED (TCP) : 3600 2—FIN-WAIT (TCP): 30 3—UDP -OPEN : 30 4—UDP -READY : 60 5—ICMP -REQUEST : 60 6—ICMP -REPLY : 30 7—RAWIP-OPEN : 30 8—RAWIP-READY : 60 9—UDPLITE-OPNE : 30 10—UDPLITE-READY : 60 11—DCCP-REQUEST : 30 12—DCCP-EST : 3600	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			13—DCCP-CLOSEREQ : 30 14—SCTP-INIT : 30 15—SCTP-EST : 3600 16—SCTP-SHUTDOWN: 30 17—ICMPV6-REQUEST :60 18—ICMPV6-REPLAY : 30 19—TCP-TIME-WAIT :2 20—TCP-CLOSE: 2	

Session/AppAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```

<Session>
  <AppAgingTime>
    <AgingTime>
      <AppID></AppID>
      <TimeValue></TimeValue>
    </AgingTime>
  </AppAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	AppAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Application layer	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol ID.		Value range: 0 to 16. • 0—DNS. • 1—FTP. • 2—GTP. • 3—H.225. • 4—H.245. • 5—RAS. • 6—RTSP. • 7—SIP. • 8—TFTP. • 9—ILS. • 10—MGCP. • 11—NBT. • 12—PPTP. • 13—RSH. • 14—SCCP. • 15—SQLNET. • 16—XDMCP.	
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: • 0—DNS: 1 to 100000 seconds. • 1-16—FTP-XDMCP: 5 to 100000 seconds Default aging time: • 0—DNS: 1. • 1—FTP: 3600. • 2—GTP: 60. • 3—H.225: 3600. • 4—H.245: 3600. • 5—RAS: 300. • 6—RTSP: 3600. • 7—SIP: 300. • 8—TFTP: 60. • 9—ILS: 3600. • 10—MGCP: 60. • 11—NBT: 3600. • 12—PPTP: 3600. • 13—RSH: 60. • 14—SCCP: 3600. • 15—SQLNET: 600. • 16—XDMCP: 3600.	N/A

Session/ApplicationAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```
<Session>
  <ApplicationAgingTime>
    <AgingTime>
      <AppName></AppName>
      <TimeValue></TimeValue>
    </AgingTime>
  </ApplicationAgingTime>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ApplicationAgingTime
Table type	Multi-instance table
Row name	ApplicationAgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name.	Index	String, case-insensitive. Length: 1 to 63 characters.	This value can be pre-defined or user-defined application layer protocol name. Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer protocol name must be standard and can be identified by the equipment.
TimeValue	Aging time (seconds).	N/A	• Unsigned integer. • Value range and default aging time for sessions of application layer protocols are as follows: • Value range: • 1 to 100000 seconds. • Default aging time of pre-defined applications:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- DNS: 1. - FTP: 3600. - GTP-CONTROL:60. - GTP-USER:60. - GPRSDATA:60. - GPRSSIG:60. - H225: 3600. - H245: 3600. - RAS: 300. - RTSP: 3600. - SIP: 300. - TFTP: 60. - ILS: 3600. - MGCP-CALLAGENT:60. - MGCP-GATEWAY:60. - PPTP: 3600. - RSH: 60. - SCCP: 3600. - SQLNET: 600. - XDMCP: 3600. - BOOTPC:120. - BOOTPS:120. - FTPDATA:240. - HTTPS:600. - L2TP:120. - NETBIOS-DGM:3600 - NETBIOS-NS:3600 - NETBIOS-SSN:3600. - NTP:120. - QQ:120. - RIP:120. - SNMP:120. - SNMPTRAP:120. - STUN:600. - SYSLOG:120. - TACACSDS:120. - WHO:120. - Default aging time of other pre-defined and user-defined applications: 1200s.Default aging time of other pre-defined and user-defined applications: 1200s.	

Session/LogThreshold

This table contains threshold for session logging.

XML structure

```
<Session>
  <LogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </LogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	LogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based session logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based session logging threshold (minutes).	Data structure.	Members include: - Type. - Threshold.	
Type	Type of traffic-based session logging.	N/A	Enumeration: 0—Packet-based threshold for traffic-based logging. 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterfaces

This table contains interfaces on which IPv4 session logging is enabled.

XML structure

```
<Session>
  <Ipv4LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv4LogOnInterfaces>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ACLNumber	IPv4 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL.

Column name	Column description	Column type	Data type and restrictions	Remarks
				If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface. This column can be null.

Session/Ipv6LogOnInterfaces

This table contains interfaces to which IPv6 session logging is enabled.

XML structure

```

<Session>
  <Ipv6LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv6LogOnInterfaces>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC,

Column name	Column description	Column type	Data type and restrictions	Remarks
				FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ACLNumber	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv6 sessions on the interface. This column can be null.

Session/HotBackup

This table contains session hot backuping configurations.

XML structure

```

<Session>
  <HotBackup>
    <EnableHotBackup></EnableHotBackup>
  </HotBackup>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	HotBackup
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableHotBackup	Whether enable hot backup for session tables.	N/A	Boolean: - true - false (default).	N/A

Session/ProtocolHotBackup

This table contains protocols which need hot backuping.

XML structure

```
<Session>
  <ProtocolHotBackup>
    <ProtocolInfo>
      <ProtocolID></ProtocolID>
      <EnableBackup></EnableBackup>
    </ProtocolInfo>
  </ProtocolHotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	ProtocolHotBackup
Table type	Multi-instance table
Row name	ProtocolInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	ProtocolID.	Index	Enumeration: 1—DNS. 2—HTTP.	Default, sessions of these protocols are not synchronized.
EnableBackup	Whether enable protocol backup.	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/TopStatistics/Switch

This table contains session top statistics configuration of switch.

XML structure

```
<Session>
  <TopStatistics>
    <Switch>
      <Enable></Enable>
    </Switch>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session top statistics	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/TrafficLogFlowBegin

This table contains traffic log flow begin configuration.

XML structure

```
<Session>
  <TrafficLogFlowBegin>
    <OutputCreateLog></OutputCreateLog>
  </TrafficLogFlowBegin>
</Session>
```


</Session>

Table description

Item	Description
Feature name	Session
Table name	TrafficLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputCreate Log	Whether enable traffic logging.	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/TrafficLogThreshold

This table contains threshold for traffic log threshold logging.

XML structure

```
<Session>
  <TrafficLogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </TrafficLogThreshold>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogThreshold
Table type	Single-instance table
Row name	None

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based traffic logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based traffic logging threshold (minutes).	Data structure.	Members include: - Type. - Threshold.	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: 0—Packet-based threshold for traffic-based logging. 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterZones

This table contains session traffic log enable ipv4 configuration.

XML structure

```

<Session>
  <Ipv4LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv4LogOnInterZones>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
EnableLog	Logging enable	N/A	Boolean: - true—YES - false—NO	N/A
Mode	Whether by-server	N/A	Boolean: - true—YES - false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/Ipv6LogOnInterZones

This table contains session traffic log enable ipv6 configuration.

XML structure

```
<Session>
  <Ipv6LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
```

```

    </InterZone>
  </Ipv6LogOnInterZones>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
EnableLog	Logging enable	N/A	Boolean: - true—YES - false—NO	N/A
Mode	Whether by-server	N/A	Boolean: - true—YES - false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/ConnectionLimit/Ipv4Policies

This table contains IPv4 connection limit policy configurations..

XML structure

```

<Session>
  <ConnectionLimit>

```

```

<Ipv4Policies>
  <Policy>
    <PolicyNumber></PolicyNumber>
    <Description></Description>
  </Policy>
</Ipv4Policies>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv4 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6Policies

This table contains IPv6 connection limit policy configurations..

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv6Policies>
  </ConnectionLimit>
</Session>

```

```

    </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv6 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4LimitRules

This table contains IPv4 connection limit rule configurations.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv4LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>

```

```

    </LimitType>
    <Description></Description>
  </Rule>
</Ipv4LimitRules>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv4 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv4 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A
Description	IPv4 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6LimitRules

This table contains IPv6 connection limit rule configurations.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>

```



```

        <PerSource></PerSource>
        <PerDestination></PerDestination>
        <PerService></PerService>
    </LimitType>
    <Description></Description>
</Rule>
</Ipv6LimitRules>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
RuleNumber	IPv6 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv6 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A
Description	IPv6 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4PolicyAppliedGlobally

This table contains IPv4 connection limit policy applied globally.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv4PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv4PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyAppliedGlobally

This table contains IPv6 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv6PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4PolicyOnInterfaces

This table contains interfaces to which IPv4 connection limit policy is applied.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv4PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv4PolicyOnInterfaces>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyOnInterfaces

This table contains interfaces to which IPv6 connection limit policy is applied.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv6PolicyOnInterfaces>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/StatisticsSwitch

This table contains session statistics configuration of switch.

XML structure

```
<Session>
  <StatisticsSwitch>
    <Enable></Enable>
  </StatisticsSwitch>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	StatisticsSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session statistics	N/A	Boolean: - true—YES - false—NO(default).	N/A

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Session

Session/Ipv4Persistent

This table contains IPv4 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv4Persistence table for IPv4 persistent configuration.

XML structure

```
<Session>
  <Ipv4Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv4Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/Ipv6Persistent

This table contains IPv6 persistent sessions' information. The table supports only one persistent configuration. As a best practice, use the Ipv6Persistence table for IPv6 persistent configuration.

XML structures

```
<Session>
  <Ipv6Persistent>
    <ACLNumber></ACLNumber>
    <AgingTime></AgingTime>
  </Ipv6Persistent>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistent
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions (hours).	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can only be configured when <i>ACLNumber</i> is also configured.

Session/Ipv4Persistence

This table contains IPv4 persistent sessions' information.

XML structure

```
<Session>
  <Ipv4Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv4Persistence>
```

</Session>

Table description

Item	Description
Feature name	Session
Table name	Ipv4Persistence
Table type	Multi-instance table
Row name	Persistence
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv4 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv4 persistent sessions, in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when <i>ACLNumber</i> is configured.

Session/Ipv6Persistence

This table contains IPv6 persistent sessions' information.

XML structures

```
<Session>
  <Ipv6Persistence>
    <Persistence>
      <ACLNumber></ACLNumber>
      <AgingTime></AgingTime>
    </Persistence>
  </Ipv6Persistence>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Persistence

Table type	Multi-instance table
Row name	Persistence
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	IPv6 ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	N/A
AgingTime	Aging time for IPv6 persistent sessions, in hours	N/A	Unsigned integer. Value range: 0 to 360. Default: 24.	0 indicates never aging. This column can be configured only when <i>ACLNumber</i> is configured.

Session/L4StateAgingTime

This table contains the aging time for the sessions in transport layer protocol states.

XML structure

```

<Session>
  <L4StateAgingTime>
    <AgingTime>
      <StateID></StateID>
      <StateName></StateName>
      <TimeValue></TimeValue>
    </AgingTime>
  </L4StateAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	L4StateAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StateID	Transport layer protocol state ID.	Index	Unsigned integer. Value range: 0 to 20. • 0—SYN-SENT and SYN-RCV (TCP) • 1—ESTABLISHED (TCP). • 2—FIN-WAIT (TCP). • 3—UDP-OPEN. • 4—UDP-READY. • 5—ICMP -REQUEST. • 6—ICMP -REPLY. • 7—RAWIP-OPEN. • 8—RAWIP-READY. • 9—UDPLITE-OPNE. • 10—UDPLITE-READY. • 11—DCCP-REQUEST. • 12—DCCP-EST. • 13—DCCP-CLOSEREQ. • 14—SCTP-INIT. • 15—SCTP-EST. • 16—SCTP-SHUTDOWN. • 17—ICMPV6-REQUEST. • 18—ICMPV6-REPLAY. • 19—TCP-TIME-WAIT. • 20—TCP-CLOSE.	The aging time can be configured if is the protocol ID is 0 to 8, 19, or 20. The aging time for other protocols uses the default value.
StateName	Transport layer protocol state name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range: 5 to 100000 seconds. Default aging time for sessions in different protocol states is as follows: • 0—SYN-SENT or SYN-RCV (TCP) : 30 • 1—ESTABLISHED (TCP) : 3600 • 2—FIN-WAIT (TCP): 30 • 3—UDP -OPEN : 30 • 4—UDP -READY : 60 • 5—ICMP -REQUEST : 60 • 6—ICMP -REPLY : 30 • 7—RAWIP-OPEN : 30 • 8—RAWIP-READY : 60 • 9—UDPLITE-OPNE : 30 • 10—UDPLITE-READY : 60	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			• 11—DCCP-REQUEST : 30 • 12—DCCP-EST : 3600 • 13—DCCP-CLOSEREQ : 30 • 14—SCTP-INIT : 30 • 15—SCTP-EST : 3600 • 16—SCTP-SHUTDOWN: 30 • 17—ICMPV6-REQUEST :60 • 18—ICMPV6-REPLAY : 30 • 19—TCP-TIME-WAIT :2 • 20—TCP-CLOSE : 2	

Session/AppAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```

<Session>
  <AppAgingTime>
    <AgingTime>
      <AppID></AppID>
      <AppName></AppName>
      <TimeValue></TimeValue>
    </AgingTime>
  </AppAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	AppAgingTime
Table type	Multi-instance table
Row name	AgingTime
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppID	Application layer protocol ID.	Index	Unsigned integer. Value range: 0 to 16. • 0—DNS. • 1—FTP. • 2—GTP. • 3—H.225. • 4—H.245. • 5—RAS. • 6—RTSP. • 7—SIP. • 8—TFTP. • 9—ILS. • 10—MGCP. • 11—NBT. • 12—PPTP. • 13—RSH. • 14—SCCP. • 15—SQLNET. • 16—XDMCP.	N/A
AppName	Application layer protocol name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: • 0—DNS: 1 to 100000 seconds. • 1-16—FTP-XDMCP: 5 to 100000 seconds Default aging time: • 0—DNS: 1. • 1—FTP: 3600. • 2—GTP: 60. • 3—H.225: 3600. • 4—H.245: 3600. • 5—RAS: 300. • 6—RTSP: 3600. • 7—SIP: 300. • 8—TFTP: 60. • 9—ILS: 3600. • 10—MGCP: 60. • 11—NBT: 3600. • 12—PPTP: 3600. • 13—RSH: 60. • 14—SCCP: 3600.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			15—SQLNET: 600. 16—XDMCP: 3600.	

Session/ApplicationAgingTime

This table contains the aging time for the sessions of application layer protocols.

XML structure

```

<Session>
  <ApplicationAgingTime>
    <AgingTime>
      <AppName></AppName>
      <AppID></AppID>
      <TimeValue></TimeValue>
    </AgingTime>
  </ApplicationAgingTime>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ApplicationAgingTime
Table type	Multi-instance table
Row name	ApplicationAgingTime
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Application layer protocol name.	Index	String, case-insensitive. Length: 1 to 63 characters.	This value can be pre-defined or user-defined application layer protocol name. Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other". The application layer

Column name	Column description	Column type	Data type and restrictions	Remarks
				protocol name must be standard and can be identified by the equipment.
AppID	Application layer protocol ID.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A
TimeValue	Aging time (seconds).	N/A	Unsigned integer. Value range and default aging time for sessions of application layer protocols are as follows: Value range: 1 to 100000 seconds. Default aging time of pre-defined applications: • DNS: 1. • FTP: 3600. • GTP-CONTROL:60. • GTP-USER:60. • GPRSDATA:60. • GPRSSIG:60. • H225: 3600. • H245: 3600. • RAS: 300. • RTSP: 3600. • SIP: 300. • TFTP: 60. • ILS: 3600. • MGCP-CALLAGENT:60. • MGCP-GATEWAY:60. • PPTP: 3600. • RSH: 60. • SCCP: 3600. • SQLNET: 600. • XDMCP: 3600. • BOOTPC:120. • BOOTPS:120. • FTPDATA:240. • HTTPS:600. • L2TP:120. • NETBIOS-DGM:3600 • NETBIOS-NS:3600 • NETBIOS-SSN:3600. • NTP:120. • QQ:120. • RIP:120. • SNMP:120. • SNMPTRAP:120. • STUN:600. • SYSLOG:120. • TACACSDS:120.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			WHO:120. Default aging time of other pre-defined and user-defined applications: 1200s.	

Session/LogThreshold

This table contains threshold for session logging.

XML structure

```

<Session>
  <LogThreshold>
    <TimeThreshold></TimeThreshold>
    <FlowThreshold>
      <Type></Type>
      <Threshold></Threshold>
    </FlowThreshold>
  </LogThreshold>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	LogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based session logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based session logging threshold (minutes).	Data structure.	Members include: - Type. - Threshold.	
Type	Type of traffic-based	N/A	Enumeration: 0—Packet-based	If you set both the byte-based and

Column name	Column description	Column type	Data type and restrictions	Remarks
	session logging.		threshold for traffic-based logging. 1—Byte-based threshold for traffic-based logging.	packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterfaces

This table contains interfaces on which IPv4 session logging is enabled.

XML structure

```

<Session>
  <Ipv4LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv4LogOnInterfaces>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ACLNumber	IPv4 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface. This column can be null.

Session/Ipv6LogOnInterfaces

This table contains interfaces to which IPv6 session logging is enabled.

XML structure

```

<Session>
  <Ipv6LogOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <ACLNumber></ACLNumber>
    </Interface>
  </Ipv6LogOnInterfaces>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Direction	Direction of the interface where session logging is enabled.	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ACLNumber	IPv6 ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999.	If an ACL is specified, this configuration enables session logging for sessions that match the permit statements in the ACL. If no ACL is specified, this configuration enables session logging for all IPv6 sessions on the interface. This column can be null.

Session/HotBackup

This table contains session hot backuping configurations.

XML structure

```
<Session>
  <HotBackup>
    <EnableHotBackup></EnableHotBackup>
  </HotBackup>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	HotBackup
Table type	Single-instance table
Row name	None

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableHotBackup	Whether enable hot backuping for session tables.	N/A	Boolean: - true - false (default).	N/A

Session/ProtocolHotBackup

This table contains protocols which need hot backuping.

XML structure

```

<Session>
  <ProtocolHotBackup>
    <ProtocolInfo>
      <ProtocolID></ProtocolID>
      <ProtocolName></ProtocolName>
      <EnableBackup></EnableBackup>
    </ProtocolInfo>
  </ProtocolHotBackup>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	ProtocolHotBackup
Table type	Multi-instance table
Row name	ProtocolInfo
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProtocolID	ProtocolID.	Index	Enumeration: 1—DNS. 2—HTTP.	Default, sessions of these protocols are not synchronized.
ProtocolName	Protocol name for which backup is enabled.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
EnableBackup	Whether enable protocol backup.	N/A	Boolean: - true—YES - false—NO(default).	N/A

Session/SessionStatistics

This table contains statistics of sessions.

XML structure

```

<Session>
  <SessionStatistics>
    <SessionStatistic>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <CurSessionCount></CurSessionCount>
      <CurRelationCount></CurRelationCount>
      <SessionCount>
        <TCPCCount></TCPCCount>
        <UDPCCount></UDPCCount>
        <ICMPCCount></ICMPCCount>
        <ICMPv6Count></ICMPv6Count>
        <UDPLiteCount></UDPLiteCount>
        <SCTPCCount></SCTPCCount>
        <DCCPCCount></DCCPCCount>
        <RawIPCount></RawIPCount>
        <DNSCount></DNSCount>
        <FTPCCount></FTPCCount>
        <GTPCount></GTPCount>
        <H323Count></H323Count>
        <HTTPCount></HTTPCount>
        <ILSCCount></ILSCCount>
        <MGCPCount></MGCPCount>
      
```



```

    <NBTCCount></NBTCCount>
    <PPTPCount></PPTPCount>
    <RSHCount></RSHCount>
    <RTSPCount></RTSPCount>
    <SCCPCount></SCCPCount>
    <SIPCount></SIPCount>
    <SMTPCount></SMTPCount>
    <SQLNETCount></SQLNETCount>
    <SSHCount></SSHCount>
    <TELNETCount></TELNETCount>
    <TFTPCount></TFTPCount>
    <XDMCPCount></XDMCPCount>
  </SessionCount>
  <SessionEstablishedRate>
    <TCPRate></TCPRate>
    <UDPRate></UDPRate>
    <ICMPRate></ICMPRate>
    <ICMPv6Rate></ICMPv6Rate>
    <UDPLiteRate></UDPLiteRate>
    <SCTPRate></SCTPRate>
    <DCCPRate></DCCPRate>
    <RawIPRate></RawIPRate>
  </SessionEstablishedRate>
  <ReceivedPktsBytes>
    <TCPBytes></TCPBytes>
    <TCPPkts></TCPPkts>
    <UDPBytes></UDPBytes>
    <UDPPkts></UDPPkts>
    <ICMPBytes></ICMPBytes>
    <ICMPPkts></ICMPPkts>
    <ICMPv6Bytes></ICMPv6Bytes>
    <ICMPv6Pkts></ICMPv6Pkts>
    <UDPLiteBytes></UDPLiteBytes>
    <UDPLitePkts></UDPLitePkts>
    <SCTPBytes></SCTPBytes>
    <SCTPPkts></SCTPPkts>
    <DCCPBytes></DCCPBytes>
    <DCCPPkts></DCCPPkts>
    <RawIPBytes></RawIPBytes>
    <RawIPPkts></RawIPPkts>
  </ReceivedPktsBytes>
</SessionStatistic>
</SessionStatistics>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	SessionStatistics
Table type	Multi-instance table
Row name	SessionStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
CurSessionCount	Total number of current sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
CurRelationCount	Total number of current relation entries.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SessionCount	Number of sessions of different protocols.	Data structure.	Members include: • TCPCount. • UDPCount. • ICMPCount. • ICMPv6Count. • UDPLiteCount. • SCTPCount. • DCCPCount. • RawIPCount.	N/A
TCPCount	Number of TCP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
UDPCount	Number of UDP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ICMPCount	Number of ICMP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ICMPv6Count	Number of ICMPv6 sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
UDPLiteCount	Number of UDP-Lite	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	sessions.		Value range: 0 to $2^{32} - 1$.	
SCTPCount	Number of SCTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
DCCPCount	Number of DCCP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
RawIPCount	Number of Raw IP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
DNSCount	Number of DNS sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
FTPCount	Number of FTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
GTPCount	Number of GTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
H323Count	Number of H323 sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
HTTPCount	Number of HTTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ILSCount	Number of ILS sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
MGCPCount	Number of MGCP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
NBTPCount	Number of NBT sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
PPTPCount	Number of PPTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
RSHCount	Number of RSH sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
RTSPCount	Number of RTSP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SCCPCount	Number of SCCP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SIPCount	Number of SIP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SMTPCount	Number of SMTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SQLNETCount	Number of SQLNET sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SSHCount	Number of SSH sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TELNETCount	Number of TELNET sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
TFTPCount	Number of TFTP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
XDMCPCount	Number of XDMCP sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SessionEstablishedRate	Session establishment rate, and rates for establishing sessions of different protocols.	Data structure.	Members include: • TCPRate. • UDPRate. • ICMPRate. • ICMPv6Rate. • UDPLiteRate. • SCTPRate. • DCCPRate. • RawIPRate.	N/A
TCPRate	Establishment rate of TCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
UDPRate	Establishment rate of UDP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ICMPRate	Establishment rate of ICMP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ICMPv6Rate	Establishment rate of ICMPv6 sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
UDPLiteRate	Establishment rate of UDP-Lite sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
SCTPRate	Establishment rate of SCTP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
DCCPRate	Establishment rate of DCCP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
RawIPRate	Establishment rate of Raw IP sessions (per second).	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ReceivedPktsBytes	Number of received packets	Data structure.	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	and packet bytes of different protocols.		• TCPBytes. • TCPPkts. • UDPBytes. • UDPPkts. • ICMPBytes. • ICMPkts. • ICMPv6Bytes. • ICMPv6Pkts. • UDPLiteBytes. • UDPLitePkts. • SCTPBytes. • SCTPPkts. • DCCPBytes. • DCCPPkts. • RawIPBytes. • RawIPPkts.	
TCPBytes	Number of received TCP packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
TCPPkts	Number of received TCP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
UDPBytes	Number of received UDP packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
UDPPkts	Number of received UDP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ICMPBytes	Number of received ICMP packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ICMPkts	Number of received ICMP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ICMPv6Bytes	Number of received ICMPv6 packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ICMPv6Pkts	Number of received ICMPv6 packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
UDPLiteBytes	Number of received UDP-Lite packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
UDPLitePkts	Number of received UDP-Lite packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SCTPBytes	Number of received SCTP	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet bytes.			
SCTPPkts	Number of received SCTP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DCCPBytes	Number of received DCCP packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DCCPPkts	Number of received DCCP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RawIPBytes	Number of received Raw IP packet bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RawIPPkts	Number of received Raw IP packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Session/TopStatistics/Switch

This table contains session top statistics configuration of switch.

XML structure

```

<Session>
  <TopStatistics>
    <Switch>
      <Enable></Enable>
    </Switch>
  </TopStatistics>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Switch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session top statistics	N/A	Boolean: true. false.	N/A

Session/TopStatistics/CountingByAddress

This table contains top statistics for sessions by addresses.

XML structure

```
<Session>
  <TopStatistics>
    <CountingByAddress>
      <Item>
        <Type></Type>
        <Period></Period>
        <Sequence></Sequence>
        <Address>
          <IPv4Addr></IPv4Addr>
          <IPv6Addr></IPv6Addr>
        </Address>
        <SumCount></SumCount>
        <EstablishedRate></EstablishedRate>
      </Item>
    </CountingByAddress>
  </TopStatistics>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	CountingByAddress
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top statistics	Index	Enumeration: 0—Top statistics by source address. 1—Top statistics by destination address.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. 0—1 hour. 1—1 day. 2—30 days.	N/A
Sequence	Sequence number for top statistics	Index	Unsigned integer. Value range: 1 to 10.	N/A
Address	Source or destination network layer address	Data structure	Members include: - IPv4Addr. - IPv6Addr.	N/A
IPv4Addr	IPv4 address	N/A	IPv4 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
IPv6Addr	IPv6 address	N/A	IPv6 address.	Columns IPv4Addr and IPv6Addr are mutually exclusive.
SumCount	Total number of sessions established in a period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
EstablishedRate	Average establishment rate of sessions established between a pair of samples in a period	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Session/TopStatistics/SampleTime

This table contains sample time for the top statistics in a period.

XML structure

```

<Session>
  <TopStatistics>
    <SampleTime>
      <Item>
        <Type></Type>
      </Item>
    </SampleTime>
  </TopStatistics>
</Session>

```



```

    <Period></Period>
    <SampleTime></SampleTime>
  </Item>
</SampleTime>
</TopStatistics>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	SampleTime
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top statistics	Index	Enumeration: 0—Top statistics by source address. 1—Top statistics by destination address.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. 0—1 hour. 1—1 day. 2—30 days.	N/A
SampleTime	Sample time in a period	N/A	String. Length: 1 to 32 characters.	Example: 2000-04-25 21:23:23.

Session/HistoryStatistics

This table contains session history statistics.

XML structure

```

<Session>
  <HistoryStatistics>
    <Item>
      <Chassis></Chassis>
    </Item>
  </HistoryStatistics>
</Session>

```

```

    <Slot></Slot>
    <CPUID></CPUID>
    <Period></Period>
    <Sequence></Sequence>
    <Time></Time>
    <SessionCount></SessionCount>
    <EstablishedRate></EstablishedRate>
  </Item>
</HistoryStatistics>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	HistoryStatistics
Table type	Multi-instance table
Row name	Item
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Period	Period of history session statistics	Index	Unsigned integer. Value range: 0 to 2. 0—1 hour. 1—1 day. 2—30 days.	N/A
Sequence	Number of history statistics time point	Index	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Time	Current time	N/A	String. Length: 1 to 32 characters.	N/A
SessionCount	Number of history session count	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Established Rate	Number of history new established rate	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Session/TrafficLogFlowBegin

This table contains traffic log flow begin configuration.

XML structure

```
<Session>
  <TrafficLogFlowBegin>
    <OutputCreateLog></OutputCreateLog>
  </TrafficLogFlowBegin>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogFlowBegin
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OutputCreate Log	Whether enable traffic logging.	N/A	Boolean: true. false.	N/A

Session/TrafficLogThreshold

This table contains threshold for traffic threshold logging.

XML structure

```
<Session>
```

```

<TrafficLogThreshold>
  <TimeThreshold></TimeThreshold>
  <FlowThreshold>
    <Type></Type>
    <Threshold></Threshold>
  </FlowThreshold>
</TrafficLogThreshold>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	TrafficLogThreshold
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeThreshold	Time-based traffic logging threshold (minutes).	N/A	Unsigned integer. Value range: 10 to 120.	The value must be integer times of 10.
FlowThreshold	Traffic-based traffic logging threshold (minutes).	Data structure.	Members include: - Type. - Threshold.	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: 0—Packet-based threshold for traffic-based logging. 1—Byte-based threshold for traffic-based logging.	If you set both the byte-based and packet-based thresholds, the last configuration takes effect.
Threshold	Threshold for traffic-based logging.	N/A	Unsigned integer. Value range: 1 to 1000.	If type is 0, the unit is mega-packets. If type is 1, the unit is mega-bytes.

Session/Ipv4LogOnInterZones

This table contains session traffic log enable ipv4 configuration.

XML structure

```
<Session>
  <Ipv4LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv4LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
EnableLog	Logging enable	N/A	Boolean: - true—YES - false—NO	N/A
Mode	Whether by-server	N/A	Boolean: - true—YES - false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/Ipv6LogOnInterZones

This table contains session traffic log enable ipv6 configuration.

XML structure

```
<Session>
  <Ipv6LogOnInterZones>
    <InterZone>
      <SourceZone></SourceZone>
      <DestinationZone></DestinationZone>
      <EnableLog></EnableLog>
      <Mode></Mode>
      <ACLNumber></ACLNumber>
    </InterZone>
  </Ipv6LogOnInterZones>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LogOnInterZones
Table type	Multi-instance table
Row name	InterZone
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceZone	Source Zone.	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
DestinationZone	Destination Zone	Index	String, case-insensitive. Length: 1 to 31 characters.	Characters ">" , ">>" and " " can't be included.
EnableLog	Logging enable	N/A	Boolean: - true—YES - false—NO	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Whether by-server	N/A	Boolean: - true—YES - false—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A

Session/Ipv4Sessions

The table of IPv4 sessions.

XML structure

```

<Session>
  <Ipv4Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Handle></Handle>
      <PerChassis></PerChassis>
      <PerSlot></PerSlot>
      <PerCPUID></PerCPUID>
      <PerHandle></PerHandle>
      <LocalCreate></LocalCreate>
      <SessionMax></SessionMax>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitDSLiteTunnelPeer></InitDSLiteTunnelPeer>
      <InitProtocol></InitProtocol>
      <ResponseVRF></ResponseVRF>
      <ResponseSourceIp></ResponseSourceIp>
      <ResponseSourcePort></ResponseSourcePort>
      <ResponseDestinationIp></ResponseDestinationIp>
      <ResponseDestinationPort></ResponseDestinationPort>
      <ResponseDSLiteTunnelPeer></ResponseDSLiteTunnelPeer>
      <ResponseProtocol></ResponseProtocol>
      <Application></Application>
      <State></State>
      <StartTime></StartTime>
      <TTL></TTL>
    </Session>
  </Ipv4Sessions>
</Session>

```

```

<RecvInterface></RecvInterface>
<RecvSecurityZone></RecvSecurityZone>
<SendInterface></SendInterface>
<SendSecurityZone></SendSecurityZone>
<InitToResponsePackets></InitToResponsePackets>
<InitToResponseBytes></InitToResponseBytes>
<ResponseToInitPackets></ResponseToInitPackets>
<ResponseToInitBytes></ResponseToInitBytes>
<InitEnProtocol></InitEnProtocol>
<StopTime></StopTime>
<Backupflag></Backupflag>
<InitRuleName></InitRuleName>
<EnState></EnState>
<TimeRangeStart></TimeRangeStart>
<TimeRangeEnd></TimeRangeEnd>
<SessionDir></SessionDir>
<PageNum></PageNum>
<PageCnt></PageCnt>
<TotalCnt></TotalCnt>
</Session>
</Ipv4Sessions>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Handle	会话索引 Handle	Index	Unsigned integer. Value range: 0 to $2^{64} - 1$.	This column has no practical sense, it's only the index of the table.
PerChassis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerSlot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerCPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	This column is for several times to get
PerHandle	Handle	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	This column is for several times to get
LocalCreate	Mark of the session that Local board Created	N/A	Unsigned integer. Value range: 0 to 1. 0—All boards 1—Local board	N/A
SessionMax	The number of one time get	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Type	Type of the module which created the session.	N/A	Unsigned integer. Enumeration: 0—NAT. 1—CONNECTION-LIMIT. 2—LB. 3—ASPF. 4—LOG. 5—ALG. 6—DS-Lite. 7—TCP MSS. 8—Application of statistical. 9—Inter-zone strategy. 10—WAAS. 11—TCP serial number to check. 12—AFT. 13—DIM Engine processing. 14—TCP Engine restructuring. 15—Traffic log.	This column can be used as query condition.
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: 0—VRF instance name. 1—VLAN ID. 2—Inline ID.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
InitVRF	Session forward value of the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitDestination Ip	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 Address.	This column can be used as query condition.
InitDestination Port	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the initiator. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	String, case-insensitive. Length: 1 to 46 characters.	N/A
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponseVRF	Session forward value of the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID. When SessionFwdType is Inline ID, the value for InitVRF is Inline ID. When SessionFwdType is VRF instance name, the value for InitVRF is the VRF instance name.
ResponseSourceIp	Source IP address of the packet from the responder to the initiator.	N/A	Ipv4 Address.	This column can be used as query condition.
ResponseSourcePort	Source port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDestinationIp	Destination IP address of the packet from the responder to the initiator.	N/A	Ipv4 Address.	This column can be used as query condition.
ResponseDestinationPort	Destination port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDSLiteTunnelPeer	Address of the DS-Lite tunnel peer of the responder. When the session does not belong to any DS-Lite tunnel, this field is NULL.	N/A	String, case-insensitive. Length: 1 to 46 characters.	N/A
ResponseProtocol	Transport layer protocol name of the packet from the responder to the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Application	Application layer protocol. The value of OTHER indicates an unknown protocol with a non-well-known port.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be used as query condition.
State	Session state(String).	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
StartTime	Session establishment time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TTL	Remaining lifetime of the session, in seconds.v	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$ seconds.	N/A
RecvInterface	Interface name of the packet receiver.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
RecvSecurityZone	SecurityZone name of the packet receiver	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
SendInterface	Interface name of the packet sender.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
SendSecurityZone	SecurityZone name of the packet sender	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
InitToResponsePackets	Number of packets from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
InitToResponseBytes	Number of packet bytes from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ResponseToInitPackets	Number of packets from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ResponseToInitBytes	Number of packet bytes from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: • 0—TCP. • 1—UDP. • 2—ICMP. • 3—ICMPv6. • 4—UDP-Lite. • 5—SCTP. • 6—DCCP. • 7—RAWIP. • 8—ALL.	This column can be used as query condition.
StopTime	Remaining time of stopping a specified session's flow	N/A	Unsigned integer.	N/A
Backupflag	Session state's mask: owner, director, etc	N/A	Unsigned Char. 0x40—OWNER 0x80—DIRECTOR	N/A
InitRuleName	The name of rule of which is matched by zone checking	N/A	String, case-insensitive. Length: 1 to 127 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 16—ICMP_REQUEST. • 17—ICMP_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECV. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	This column can be used as query condition.
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder. • 2—Both.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
PageNum	Page number.	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	This column can be used as query condition.
PageCnt	Number of sessions per page.	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	This column can be used as query condition.
TotalCnt	Total number of sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Session/Ipv6Sessions

This table is used to display the ipv6 session details.

XML structure

```

<Session>
  <Ipv6Sessions>
    <Session>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Handle></Handle>
      <PerChassis></PerChassis>
      <PerSlot></PerSlot>
      <PerCPUID></PerCPUID>
      <PerHandle></PerHandle>
      <LocalCreate></LocalCreate>
      <SessionMax></SessionMax>
      <Type></Type>
      <SessionFwdType></SessionFwdType>
      <InitVRF></InitVRF>
      <InitSourceIp></InitSourceIp>
      <InitSourcePort></InitSourcePort>
      <InitDestinationIp></InitDestinationIp>
      <InitDestinationPort></InitDestinationPort>
      <InitProtocol></InitProtocol>
      <ResponseVRF></ResponseVRF>
      <ResponseSourceIp></ResponseSourceIp>
      <ResponseSourcePort></ResponseSourcePort>
      <ResponseDestinationIp></ResponseDestinationIp>
      <ResponseDestinationPort></ResponseDestinationPort>
      <ResponseProtocol></ResponseProtocol>
      <Application></Application>
      <State></State>
      <StartTime></StartTime>
      <TTL></TTL>
    </Session>
  </Ipv6Sessions>
</Session>

```

```

<RecvInterface></RecvInterface>
<RecvSecurityZone></RecvSecurityZone>
<SendInterface></SendInterface>
<SendSecurityZone></SendSecurityZone>
<InitToResponsePackets></InitToResponsePackets>
<InitToResponseBytes></InitToResponseBytes>
<ResponseToInitPackets></ResponseToInitPackets>
<ResponseToInitBytes></ResponseToInitBytes>
<InitEnProtocol></InitEnProtocol>
<StopTime></StopTime>
<Backupflag></Backupflag>
<InitRuleName></InitRuleName>
<EnState></EnState>
<TimeRangeStart></TimeRangeStart>
<TimeRangeEnd></TimeRangeEnd>
<SessionDir></SessionDir>
<PageNum></PageNum>
<PageCnt></PageCnt>
<TotalCnt></TotalCnt>
</Session>
</Ipv6Sessions>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Handle	Handle.	Index	Unsigned integer. Value range: 0 to $2^{64} - 1$.	This column has no practical sense, it's only the index of the table.
PerChasis	ID of the member where the entity resides	N/A	Unsigned integer. Value range: 0 to 65534.	This column is for several times to get
PerSlot	Slot ID of the entity	N/A	Unsigned integer. Value range: 0 to 65534	This column is for several times to get
PerCPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7	This column is for several times to get
PerHandle	Handle	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$	This column is for several times to get
LocalCreate	Mark of the session that Local board Created	N/A	Unsigned integer. Value range: 0 to 1. 0—All boards 1—Local board	N/A
SessionMax	The number of one time get	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Type	Type of the module which created the session.	N/A	Unsigned integer. Enumeration: 0—NAT. 1—CONNECTION-LIMIT 2—LB. 3—ASPF. 4—LOG. 5—ALG 6—DS-Lite 7—TCP MSS 8—Application of statistical 9—Inter-zone strategy 10—WAAS 11—TCP serial number to check 12—AFT 13—DIM Engine processing 14—TCP Engine restructuring 15—Traffic log	This column can be used as query condition.
SessionFwdType	Session forward type.	N/A	Unsigned integer. Enumeration: 0—VRF instance name. 1—VLAN ID. 2—Inline ID.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
InitVRF	Session forward value of the initiator.	N/A	String, case-sensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID; SessionFwdType is Inline ID, the value for InitVRF is Inline ID, SessionFwdType is VRF instance name, the value for InitVRF is VRF instance name.
InitSourceIp	Source IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	This column can be used as query condition.
InitSourcePort	Source port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv6 Address.	This column can be used as query condition.
InitDestinationPort	Destination port of the packet from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
InitProtocol	Transport layer protocol name of the packet from the initiator to the responder.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
ResponseVRF	Session forward value of the responder.	N/A	String, case-sensitive. Length: 1 to 31 characters.	1 This column can be used as query condition. 2 When SessionFwdType is VLAN ID, the value for InitVRF is VLAN ID; SessionFwdType is Inline ID, the value for InitVRF is Inline ID, SessionFwdType is VRF instance name, the value for InitVRF is VRF instance name.

Column name	Column description	Column type	Data type and restrictions	Remarks
ResponseSourceIp	Source IP address of the packet from the responder to the initiator.	N/A	Ipv6 Address.	This column can be used as query condition.
ResponseSourcePort	Source port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseDestinationIp	Destination IP address of the packet from the responder to the initiator.	N/A	Ipv6 Address.	This column can be used as query condition.
ResponseDestinationPort	Destination port of the packet from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to 65535.	This column can be used as query condition.
ResponseProtocol	Transport layer protocol name of the packet from the responder to the initiator.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Application	Application layer protocol. The value of OTHER indicates an unknown protocol with a non-well-known port.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column can be used as query condition.
State	Session state(String).	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
StartTime	Session establishment time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
TTL	Remaining lifetime of the session, in seconds.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$ seconds.	N/A
RecvInterface	Interface name of the packet receiver.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.
RecvSecurityZone	SecurityZone name of the packet receiver	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column can be used as query condition.
SendInterface	Interface name of the packet sender.	N/A	String, case-insensitive. Length: 2 to 47 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
SendSecurityZone	SecurityZone name of the packet sender	N/A	String, case-insensitive. Length: 1 to 31 characters	This column can be used as query condition.
InitToResponsePackets	Number of packets from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
InitToResponseBytes	Number of packet bytes from the initiator to the responder.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ResponseToInitPackets	Number of packets from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
ResponseToInitBytes	Number of packet bytes from the responder to the initiator.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
InitEnProtocol	Transport layer protocol id of the packet from the initiator to the responder.	N/A	Enumeration: 0—TCP. 1—UDP. 2—ICMP. 3—ICMPv6. 4—UDP-Lite. 5—SCTP. 6—DCCP. 7—RAWIP. 8—ALL.	This column can be used as query condition.
StopTime	Remaining time of stopping a specified session's flow	N/A	Unsigned integer..	N/A
Backupflag	Session state's mask: owner, director, etc	N/A	Unsigned Char. 0x40—OWNER 0x80—DIRECTOR	N/A
InitRuleName	The name of rule of which is matched by zone checking	N/A	String, case-insensitive. Length: 1 to 127 characters.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnState	Session state(Enumeration).	N/A	Enumeration: • 0—TCP_SYN_SENT. • 1—TCP_SYN_RECV. • 2—TCP_ESTABLISHED. • 3—TCP_FIN_WAIT. • 4—TCP_CLOSE_WAIT. • 5—TCP_LAST_ACK. • 6—TCP_TIME_WAIT. • 7—TCP_CLOSE. • 8—TCP_SYN_SENT2. • 9—DCCP_REQUEST. • 10—DCCP_RESPOND. • 11—DCCP_PARTOPEN. • 12—DCCP_OPEN. • 13—DCCP_CLOSEREQ. • 14—DCCP_CLOSING. • 15—DCCP_TIMEWAIT. • 18—ICMPV6_REQUEST. • 19—ICMPV6_REPLY. • 20—RAWIP_OPEN. • 21—RAWIP_READY. • 22—SCTP_CLOSED. • 23—SCTP_COOKIE_WAIT. • 24—SCTP_COOKIE_ECHOED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECV. • 28—SCTP_SHUTDOWN_ACK_SENT. • 29—UDP_OPEN. • 30—UDP_READY. • 31—UDPLITE_OPEN. • 32—UDPLITE_READY.	This column can be used as query condition.
TimeRangeStart	Start time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
TimeRangeEnd	End time of the time range.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	This column can be used as query condition.
SessionDir	Direction of the session.	N/A	Enumeration: • 0—Initiator. • 1—Responder. • 2—Both.	This column can be used as query condition.

Column name	Column description	Column type	Data type and restrictions	Remarks
PageNum	Page number.	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	This column can be used as query condition.
PageCnt	Number of sessions per page.	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	This column can be used as query condition.
TotalCnt	Total number of sessions.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

Session/ConnectionLimit/Ipv4Policies

This table contains IPv4 connection limit policy configurations..

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv4Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv4Policies>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv4Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	IPv4 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6Policies

This table contains IPv6 connection limit policy configurations..

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6Policies>
      <Policy>
        <PolicyNumber></PolicyNumber>
        <Description></Description>
      </Policy>
    </Ipv6Policies>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A
Description	IPv6 connection limit policy description	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4LimitRules

This table contains IPv4 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
      </Rule>
    </Ipv4LimitRules>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	IPv4 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv4 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv4 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A
Description	IPv4 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv6LimitRules

This table contains IPv6 connection limit rule configurations.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6LimitRules>
      <Rule>
        <PolicyNumber></PolicyNumber>
        <RuleNumber></RuleNumber>
        <ACLNumber></ACLNumber>
        <ACLName></ACLName>
        <HighThreshold></HighThreshold>
        <LowThreshold></LowThreshold>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
      </Rule>
    </Ipv6LimitRules>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv6LimitRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleNumber	IPv6 connection limit rule ID.	Index	Unsigned integer. Value range: 1 to 256.	N/A
ACLNumber	IPv6 ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
ACLName	IPv6 ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Either <i>ACLNumber</i> or <i>ACLName</i> is required, and you cannot configure both.
HighThreshold	Upper connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	When user connections in a range or of a type exceed the upper connection limit, new connections cannot be created. This column is affirmatively chosen item.
LowThreshold	Lower connection limit	N/A	Unsigned integer. Value range: 1 to 4294967294.	The lower connection limit cannot be greater than the upper connection limit. New connections cannot be created until the connection number goes below the lower connection limit. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: - PerSource. - PerDestination. - PerService.	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: - true—YES - false—NO(default).	N/A
PerService	Limits connections by service port.	N/A	Boolean: - true—YES - false—NO(default).	N/A
Description	IPv6 connection limit rule description.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A

Session/ConnectionLimit/Ipv4PolicyAppliedGlobally

This table contains IPv4 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv4PolicyAppliedGlobally>
      <PolicyNumber></PolicyNumber>
    </Ipv4PolicyAppliedGlobally>
  </ConnectionLimit>
</Session>
```

Table description

Item	Description
Feature name	Session
Table name	Ipv4PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv4 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyAppliedGlobally

This table contains IPv6 connection limit policy applied globally.

XML structure

```
<Session>
  <ConnectionLimit>
    <Ipv6PolicyAppliedGlobally>
```

```

    <PolicyNumber></PolicyNumber>
  </Ipv6PolicyAppliedGlobally>
</ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyAppliedGlobally
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyNumber	IPv6 connection limit policy number	Index	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv4PolicyOnInterfaces

This table contains interfaces to which IPv4 connection limit policy is applied.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv4PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv4PolicyOnInterfaces>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session

Table name	Ipv4PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv4 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/Ipv6PolicyOnInterfaces

This table contains interfaces to which IPv6 connection limit policy is applied.

XML structure

```

<Session>
  <ConnectionLimit>
    <Ipv6PolicyOnInterfaces>
      <Interface>
        <IfIndex></IfIndex>
        <PolicyNumber></PolicyNumber>
      </Interface>
    </Ipv6PolicyOnInterfaces>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	Ipv6PolicyOnInterfaces
Table type	Multi-instance table
Row name	Interface

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
PolicyNumber	IPv6 connection limit policy number	N/A	Unsigned integer. Value range: 1 to 32.	N/A

Session/ConnectionLimit/GlobalStatistics

This table contains connection limit global statistics.

XML structure

```

<Session>
  <ConnectionLimit>
    <GlobalStatistics>
      <GlobalStatistic>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Ipv4DroppedPackets></Ipv4DroppedPackets>
        <Ipv6DroppedPackets></Ipv6DroppedPackets>
      </GlobalStatistic>
    </GlobalStatistics>
  </ConnectionLimit>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	GlobalStatistics
Table type	Multi-instance table
Row name	GlobalStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the entity resides	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Ipv4DroppedPackets	Number of dropped IPv4 packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	Number of IPv4 packets that are dropped because the upper connection limit is exceeded when an IPv4 connection limit policy is configured globally.
Ipv6DroppedPackets	Number of dropped IPv6 packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	Number of IPv6 packets that are dropped because the upper connection limit is exceeded when an IPv6 connection limit policy is configured globally.

Session/ConnectionLimit/InterfaceStatistics

This table contains connection limit statistics on interfaces.

XML structure

```
<Session>
  <ConnectionLimit>
    <InterfaceStatistics>
      <InterfaceStatistic>
        <IfIndex></IfIndex>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
        <Ipv4DroppedPackets></Ipv4DroppedPackets>
        <Ipv6DroppedPackets></Ipv6DroppedPackets>
      </InterfaceStatistic>
    </InterfaceStatistics>
  </ConnectionLimit>
</Session>
```


Table description

Item	Description
Feature name	Session
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	InterfaceStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.
Slot	Slot ID of the entity	Index	Unsigned integer. Value range: 0 to 65534.	N/A
CPUID	CPU ID	Index	Unsigned integer. Value range: 0 to 7.	N/A
Ipv4DroppedPackets	Number of dropped IPv4 packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	Number of IPv4 packets that are dropped because the upper connection limit is exceeded when an IPv4 connection limit policy is configured on an interface.
Ipv6DroppedPackets	Number of dropped IPv6 packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	Number of IPv6 packets that are dropped because the upper connection limit is exceeded when an IPv6 connection limit policy is configured on an interface.

Session/StatisticsSwitch

This table contains session statistics configuration of switch.

XML structure

```
<Session>
```

```

<StatisticsSwitch>
  <Enable></Enable>
</StatisticsSwitch>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	StatisticsSwitch
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable session statistics	N/A	Boolean: true. false.	N/A

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SFLOW

SFLOW/sFlowClearCollector

This table is used to clear the dynamic collectors of sflow.

XML structure

```
<SFLOW>
  <sFlowClearCollector>
    <ClearCollector>
      <CollectorID></CollectorID>
    </ClearCollector>
  </sFlowClearCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowClearCollector
Table type	Multi-instance table
Row name	ClearCollector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The MaxCollectorID depends on the device model.

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SFLOW

SFLOW/sFlowCollector

This table contains SFLOW collector configuration information.

XML structure

```
<SFLOW>
  <sFlowCollector>
    <Collector>
      <CollectorID></CollectorID>
      <VRF></VRF>
      <IpAddress></IpAddress>
      <Port></Port>
      <MaxDatagramSize></MaxDatagramSize>
      <Timeout></Timeout>
      <Description></Description>
    </Collector>
  </sFlowCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCollector
Table type	Multi-instance table
Row name	Collector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
VRF	VRF instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	If the SFLOW host is on the public network, the length of characters is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IPv4address or IPv6address of sFlow Collector	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.	For the create and replace operations, IpAddress must be configured. For the merge operation, IpAddress must be configured only when the instance is not exist. For the delete and remove operations, IpAddress cannot be configured.
Port	UDP port of sFlow Collector	N/A	Unsigned integer. Value range: 1 to 65535. Default: 6343.	N/A
MaxDatagramSize	The max size of sFlow datagram	N/A	Unsigned integer. Value range: 200 to 3000. Default: 1400.	N/A
Timeout	The agetime of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647. Default: 0.	0 means the instance is static.
Description	Description of sFlow Collector	N/A	String, case insensitive. Length: 1 to 127 characters.	For the create and replace operations, Description must be configured. For the merge operation, Description must be configured only when the instance is not exist.

SFLOW/sFlowFlowSampler

This table contains SFLOW sampler configuration information.

XML structure

```

<SFLOW>
  <sFlowFlowSampler>
    <FlowSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
    </FlowSampler>
  </sFlowFlowSampler>
</SFLOW>

```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowSampler
Table type	Multi-instance table
Row name	FlowSampler
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 3 Ethernet interface Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
PacketSamplingRate	sflow sampling-rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	Values of MinSamplerRate and MaxSamplerRate depend on the device model.
SamplingMode	SamplingMode of SFLOW	N/A	Unsigned integer. 1—random 2—determine	The default value of SamplingMode depends on the device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A

SFLOW/sFlowCounterSampler

This table contains SFLOW counter sampler configuration information.

XML structure

```
<SFLOW>
  <sFlowCounterSampler>
    <CounterSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <Interval></Interval>
    </CounterSampler>
  </sFlowCounterSampler>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterSampler
Table type	Multi-instance table
Row name	CounterSampler
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface. Layer 3 Ethernet interface. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr NETCONF XML API Configuration Reference.
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
Interval	The interval of counter sampling	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled as default.

SFLOW/sFlowConfig

This table contains SFLOW config configuration information.

XML structure

```
<SFLOW>
  <sFlowConfig>
    <AgentIpAddress></AgentIpAddress>
    <SourceIpv4Address></SourceIpv4Address>
    <SourceIpv6Address></SourceIpv6Address>
  </sFlowConfig>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowAgent
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AgentIpAddress	The IPv4address or IPv6address of sFlow agent	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv4Address	The IPv4address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv6Address	The IPv6address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.

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Columns	4
SFLOW/sFlowConfig	4
XML structure	4
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Columns	5
SFLOW/sFlowSpecification	5
XML structure	5
Table description	5
Columns	6

SFLOW

SFLOW/sFlowCollector

This table contains SFLOW collector configuration information.

XML structure

```
<SFLOW>
  <sFlowCollector>
    <Collector>
      <CollectorID></CollectorID>
      <VRF></VRF>
      <IpAddress></IpAddress>
      <Port></Port>
      <MaxDatagramSize></MaxDatagramSize>
      <Timeout></Timeout>
      <AgeTime></AgeTime>
      <Description></Description>
    </Collector>
  </sFlowCollector>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCollector
Table type	Multi-instance table
Row name	Collector
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CollectorID	Collector-id	Index	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
VRF	VRF instance name	N/A	String, case sensitive. Length: 1 to 31 characters.	If the SFLOW host is on the public network, the length of characters is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IPv4address or IPv6address of sFlow Collector	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.	N/A
Port	UDP port of sFlow Collector	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
MaxDatagramSize	The max size of sFlow datagram	N/A	Unsigned integer. Value range: 200 to 3000.	N/A
Timeout	The age time of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647.	0 means the instance is static.
AgeTime	The remaining aging time of sFlow Collector	N/A	Unsigned integer. Value range: 0 to 2147483647.	N/A
Description	Description of sFlow Collector	N/A	String, case insensitive. Length: 1 to 127 characters.	N/A

SFLOW/sFlowFlowSampler

This table contains SFLOW sampler configuration information.

XML structure

```

<SFLOW>
  <sFlowFlowSampler>
    <FlowSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
      <Status></Status>
    </FlowSampler>
  </sFlowFlowSampler>
</SFLOW>

```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowSampler
Table type	Multi-instance table

Item	Description
Row name	FlowSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface Layer 3 Ethernet interface
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
PacketSamplingRate	sflow sampling-rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	The values of MinSamplerRate and MaxSamplerRate depend on the device model.
SamplingMode	SamplingMode of SFLOW	N/A	Unsigned integer. 1—random . 2—determine	The default value of SamplingMode depends on the device model.
MaxHeaderSize	Maximum number of bytes that can be copied	N/A	Unsigned integer. Value range: 18 to 512. Default: 128	N/A
Status	Status of SFLOW	N/A	Unsigned integer. 0—Suspended. 1—Active	N/A

SFLOW/sFlowCounterSampler

This table contains SFLOW counter sampler configuration information.

XML structure

```

<SFLOW>
  <sFlowCounterSampler>
    <CounterSampler>
      <IfIndex></IfIndex>
      <CollectorID></CollectorID>
      <Interval></Interval>
      <Status></Status>
    </CounterSampler>
  </sFlowCounterSampler>
</SFLOW>

```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterSampler
Table type	Multi-instance table
Row name	CounterSampler
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interface. Layer 3 Ethernet interface.
CollectorID	Collector-id	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID depends on the device model.
Interval	The interval of counter sampling	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled as default.
Status	Status of SFLOW	N/A	Unsigned integer. • 0—Suspended. • 1—Active	N/A

SFLOW/sFlowConfig

This table contains SFLOW config configuration information.

XML structure

```
<SFLOW>
  <sFlowConfig>
    <AgentIpAddress></AgentIpAddress>
    <SourceIpv4Address></SourceIpv4Address>
    <SourceIpv6Address></SourceIpv6Address>
  </sFlowConfig>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowAgent
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
AgentIpAddress	The IPv4address or IPv6address of sFlow agent	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv4Address	The IPv4address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.
SourceIpv6Address	The IPv6address of sFlow source	N/A	String, dotted decimal notation or Hexadecimal string, colon-separated.

SFLOW/sFlowSpecification

This table contains SFLOW specification information.

XML structure

```
<SFLOW>
  <sFlowSpecification>
    <MaxCollectorID></MaxCollectorID>
    <MinSamplerRate></MinSamplerRate>
    <MaxSamplerRate></MaxSamplerRate>
    <DefaultSamplerMode></DefaultSamplerMode>
  </sFlowSpecification>
</SFLOW>
```

Table description

Item	Description
Feature name	SFLOW

Item	Description
Table name	sFlowSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxCollectorID	The maximum of CollectorID.	N/A	Unsigned integer.
MinSamplerRate	The minimum of samplerRate.	N/A	Unsigned integer.
MaxSamplerRate	The maximum of SamplerRate.	N/A	Unsigned integer.
DefaultSamplerMode	The default of SamplerMode	N/A	Unsigned integer.

Contents

- SLBG..... 1
 - SLBG/Groups 1
 - XML structure..... 1
 - Table description 1
 - Columns..... 1
 - SLBG/Members 2
 - XML structure..... 2
 - Table description 2
 - Columns..... 3

SLBG

SLBG/Groups

This table contains information about a service loopback group.

XML structure

```
<SLBG>
  <SLBGGroups>
    <SLBGGroup>
      <GroupId></GroupId>
      <ServiceType></ServiceType>
    </SLBGGroup>
  </SLBGGroups>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG
Table name	SLBGGroups
Table type	Multi-instance table
Row name	SLBGGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupId	Service loopback group ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
				Required.
				You cannot change the service type of a service loopback group.
				You can configure only one service loopback group for a service type.
ServiceType	Service type of the service loopback group	N/A	Unsigned integer. Default: 1.	A service loopback group supports one of the following services: • 1—Tunnel service. • 2—Multicast tunnel service. • 3—Tunnel service and multicast tunnel service. • 4—Multiport service. • 8—VSI gateway service.

SLBG/Members

This table contains information about a member port of a service loopback group.

XML structure

```

<SLBG>
  <SLBGMembers>
    <SLBGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
    </SLBGMember>
  </SLBGMembers>
</SLBG>

```

Table description

Item	Description
Feature name	SLBG.
Table name	SLBGMember.
Table type	Multi-instance table.
Row name	SLBGMember.
Restrictions	This table supports only Layer 2 Ethernet interfaces and IRF ports.

Support for row creation and deletion	No.
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Member port index	Index	Unsigned integer.	N/A
GroupId	Service loopback group ID	N/A	Unsigned integer. Value range: 1 to 1024.	Required. You can add a port to only one service loopback group.

Contents

- SLBG..... 1
 - SLBG/Groups 1
 - XML structure..... 1
 - Table description 1
 - Columns..... 1
 - SLBG/Members 2
 - XML structure..... 2
 - Table description 2
 - Columns..... 3

SLBG

SLBG/Groups

This table contains information about a service loopback group.

XML structure

```
<SLBG>
  <SLBGGroups>
    <SLBGGroup>
      <GroupId></GroupId>
      <ServiceType></ServiceType>
      <MemberList></MemberList>
    </SLBGGroup>
  </SLBGGroups>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG
Table name	SLBGGroups
Table type	Multi-instance table
Row name	SLBGGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Service loopback group ID	Index	Unsigned integer. Value range: 1 to 1024.
ServiceType	Service type of the service loopback group	N/A	Unsigned integer. Default: 1. A service loopback group supports one of the following services: 1—Tunnel service.

			• 2—Multicast tunnel service. • 3—Tunnel service and multicast tunnel service. • 4—Multiport service. • 8—VSI gateway service. Bitmap. No length restrictions. Each octet within this value specifies a set of eight ports, with the first octet specifying ports 1 through 8, the second octet specifying ports 9 through 16, and so on. Within each octet, the most significant bit represents the lowest numbered port, and the least significant bit represents the highest numbered port. Each port of the device is represented by a single bit within the value of this object. If that bit has a value of 1, the port is included in the set of ports. The port is not included if its bit has a value of 0.
MemberList	Member list	N/A	

SLBG/Members

This table contains information about a member port of a service loopback group.

XML structure

```
<SLBG>
  <SLBGMembers>
    <SLBGMember>
      <IfIndex></IfIndex>
      <GroupId></GroupId>
    </SLBGMember>
  </SLBGMembers>
</SLBG>
```

Table description

Item	Description
Feature name	SLBG.
Table name	SLBGMember.
Table type	Multi-instance table.
Row name	SLBGMember.
Restrictions	This table supports only Layer 2 Ethernet interfaces and IRF ports.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Member port index	Index	Unsigned integer.
GroupId	Service loopback group ID	N/A	Unsigned integer. Value range: 1 to 1024.

Contents

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SNMP/NotificationStatus	1
XML structure	1
Table description	1
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Feature

SNMP/NotificationStatus

This table contains SNMP notification status action.

XML structure

```
<SNMP>
  <NotificationStatus>
    <EnableAll></EnableAll>
  </NotificationStatus>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	NotificationStatus
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EnableAll	Status of all the SNMP notifications.	N/A	Boolean: true false	N/A

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SNMP/System	1
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SNMP/Agent	2
XML structure	2
Table description	2
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SNMP/Notification	3
XML structure	3
Table description	4
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SNMP/Communities	5
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Columns	6
SNMP/Contexts	8
XML structure	8
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Columns	8
SNMP/CommunityMappings	9
XML structure	9
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Columns	9
SNMP/MIBViews	10
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Columns	11
SNMP/Groups	11
XML structure	11
Table description	12
Columns	12
SNMP/Users	14
XML structure	14
Table description	15
Columns	16
SNMP/RemoteManages	18
XML structure	18
Table description	19
Columns	19
SNMP/TargetHosts	19
XML structure	19
Table description	20
Columns	20

SNMP

SNMP/System

This table contains SNMP system information.

XML structure

```
<SNMP>
  <System>
    <AgentStatus></AgentStatus>
    <Version>
      <V1></V1>
      <V2C></V2C>
      <V3></V3>
    </Version>
    <Location></Location>
    <Contact></Contact>  </System>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentStatus	SNMP status	N/A	Enumeration: - enable - disable	You must separately set AgentStatus to enable or disable SNMP.
V1	SNMP V1 status	N/A	Enumeration: - enable - disable Default: disable.	N/A
V2C	SNMP V2C status	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
V3	SNMP V3 status	N/A	- enable - disable Default: disable.	N/A
Location	SNMP physical location information	N/A	Enumeration: - enable - disable Default: enable.	Using zero-length to restore to default value.
Contact	SNMP contact information	N/A	String. Length: 0 to 255 characters.	Using zero-length to restore to default value.

SNMP/Agent

This table contains SNMP agent information.

XML structure

```

<SNMP>
  <Agent>
    <LocalEngineId></LocalEngineId>
    <AgentUdpPort></AgentUdpPort>
    <PacketMaxSize></PacketMaxSize>
    <GetLog></GetLog>
    <SetLog></SetLog>
    <NotificationLog></NotificationLog>
  </Agent>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Agent
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalEngineId	Local engine ID of agent	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.
AgentUdpPort	UDP port for receiving SNMP packets	N/A	Unsigned integer. Value range: 1 to 65535. Default: 161.	N/A
PacketMaxSize	Maximum size of packets that the agent can receive or send Unit: byte.	N/A	Unsigned integer. Value range: 484 to 17940. Default: 1500.	N/A
GetLog	Logging status of get.	N/A	Boolean: • true • false Default: false	N/A
SetLog	Logging status of set.	N/A	Boolean: • true • false Default: false	N/A
NotificationLog	Logging status of notification.	N/A	Boolean: • true • false Default: false	N/A

SNMP/Notification

This table contains SNMP notification information.

XML structure

```
<SNMP>
  <Notification>
    <ColdStart></ColdStart>
    <WarmStart></WarmStart>
    <AuthenticationFailure></AuthenticationFailure>
    <QueueSize></QueueSize>
    <QueueLifeTime></QueueLifeTime>
    <TrapSource></TrapSource>
    <InformSource></InformSource>
  </Notification>
```

</SNMP>

Table description

Item	Description
Feature name	SNMP
Table name	Notification
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColdStart	Status of SNMP coldStart notification.	N/A	Boolean: • true • false Default: true	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: • true • false Default: true	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: • true • false Default: true	N/A
QueueSize	Notification queue size.	N/A	Unsigned integer. Value range: 1 to 1000. Default: 100.	N/A
QueueLifeTime	Lifetime of notifications in the SNMP notification queue. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2592000. Default: 120.	N/A
TrapSource	An interface name, of which primary IP address as the source IP address for the traps.	N/A	String. Length: 2 to 47 characters. Default: no value is specified.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is

Column name	Column description	Column type	Data type and restrictions	Remarks
InformSource	An interface name, of which primary IP address as the source IP address for the informRequests.	N/A	String. Length: 2 to 47 characters. Default: no value is specified.	assigned to the specified interface. Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.

SNMP/Communities

This table contains SNMP community information.

XML structure

```

<SNMP>
  <Communities>
    <Community>
      <Name></Name>
      <Type></Type>
      <Role></Role>
      <MIBView></MIBView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>
      <IPv6AdvancedACL>
        <Number></Number>
      </IPv6AdvancedACL>
    </Community>
  </Communities>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Communities
Table type	Multi-instance table
Row name	Community
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunities in data namespace. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Community name	Index	String. Length:1 to 32 characters.	N/A
Type	Community type	N/A	Enumeration: 0 – read-only (Default) 1 – read-write 2 – use-RBAC	If specified '2 - use-RBAC', then a 'Role' must be included together while 'MIBView' is meaningless. For the other enumerations, 'Role' is meaningless, and must not be included.
Role	User role name for the community.	N/A	String. Length:1 to 63 characters.	Applicable only when 'Type' is '2 - use-RBAC'.
MIBView	MIB view name available for the community.	N/A	String. Length:1 to 32 characters. Default: ViewDefault.	N/A
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSS.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this

Column name	Column description	Column type	Data type and restrictions	Remarks
				community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 3000 to 3999.	

SNMP/Contexts

This table contains SNMP context information.

XML structure

```

<SNMP>
  <Contexts>
    <Context>
      <Name></Name>
    </Context>
  </Contexts>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxContexts in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Context name	Index	String. Length:1 to 32 characters.	An NMS and an SNMP agent can communicate with each other if the following conditions exist: - No SNMP context is configured on the NMS and the SNMP agent. - The NMS and the SNMP agent use the same SNMP

Column name	Column description	Column type	Data type and restrictions	Remarks
context.				

SNMP/CommunityMappings

This table contains SNMP communities information.

XML structure

```

<SNMP>
  <CommunityMappings>
    <Mapping>
      <Community></Community>
      <Context></Context>
    </Mapping>
  </CommunityMappings>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	CommunityMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunityMappings in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Community	Community name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent communicate with community, this community can map to a context name of processes in system, and then the NMS can communicate with specified process.

Column name	Column description	Column type	Data type and restrictions	Remarks
Context	Context name	N/A	String. Length:1 to 32 characters.	This column must be specified.

SNMP/MIBViews

This table contains SNMP MIB view information.

XML structure

```

<SNMP>
  <MIBViews>
    <View>
      <Name></Name>
      <SubTree></SubTree>
      <Type></Type>
      <Mask></Mask>
    </View>
  </MIBViews>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	MIBViews
Table type	Multi-instance table
Row name	View
Restrictions	The system creates the ViewDefault view when the SNMP agent is enabled. In this default MIB view, all MIB objects in the iso subtree but the snmpUsmMIB, snmpVacmMIB, and snmpModules.18 subtrees are accessible. The max number of tables depends on SNMP/Capabilities/MaxMIBViews in data namespace, including the 4 default MIB view records. After deleting, the default MIB view records will be restored after

	the system reboots, and the max number of rows can be created do not change.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	View name.	Index	String. Length:1 to 32 characters.	N/A
SubTree	A MIB subtree by its root node's OID or object name.	Index	String or dotted decimal notation string. Length:1 to 255 characters.	Example for OID, 1.3.6.1.2.1.1. Example for object name, iso. When creating a row with OIDs, the 'SubTree' will be transform to object name automatic if the whole MIB tree in the system contained these OIDs.
Type	Access type to any node in the subtree.	N/A	Enumeration: 1 – included 2 – excluded	This column must be specified.
Mask	A MIB subtree mask	N/A	Hex String. Length: 1 to 32 characters. Default: no value is specified.	N/A

SNMP/Groups

This table contains SNMP group information.

XML structure

```

<SNMP>
  <Groups>
    <Group>
      <Name></Name>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <ReadView></ReadView>
      <WriteView></WriteView>
    </Group>
  </Groups>
</SNMP>

```

```

<NotifyView></NotifyView>
<IPv4BasicACL>
  <Number></Number>
</IPv4BasicACL>
<IPv4AdvancedACL>
  <Number></Number>
</IPv4AdvancedACL>
<IPv6BasicACL>
  <Number></Number>
</IPv6BasicACL>
<IPv6AdvancedACL>
  <Number></Number>
</IPv6AdvancedACL>
</Group>
</Groups>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxGroups in data namespace. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name.	Index	String. Length:1 to 32 characters.	N/A
SecurityMode	The security model by this group is provided.	Index	Enumeration: 1 – v1 2 – v2c 3 – v3	N/A
SecurityLevel	Security Level.	Index	Enumeration: 1 – noAuthNoPriv	When 'SecurityMode' is '1 – v2' and '2 – v2c', the

Column name	Column description	Column type	Data type and restrictions	Remarks
			2 – authNoPriv 3 – authPriv	applicable value is just '1 - noAuthNoPriv'.
ReadView	MIB view for read-only access.	N/A	String. Length:1 to 32 characters. Default: ViewDefault.	N/A
WriteView	MIB view for read and write access.	N/A	String. Length:1 to 32 characters. Default: no value is specified.	If no read and write view is specified, this group cannot set any MIB object.
NotifyView	MIB view for notify access.	N/A	String. Length:1 to 32 characters. Default: no value is specified.	The SNMP agent sends notifications to the NMS in this group only for the MIB objects included in the notify view. If no notify view is specified, the SNMP agent does not send any notification to the NMS in this group. If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: Number	If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Users

This table contains SNMP user information.

XML structure

```

<SNMP>
  <Users>
    <User>
      <SecurityMode></SecurityMode>
      <Name></Name>
      <EngineId></EngineId>
      <Address></Address>
      <VRF></VRF>
      <GroupControl>
        <Group></Group>
        <Role></Role>
      </GroupControl>
    </User>
  </Users>
</SNMP>

```

```

</GroupControl>
<SecurityParam>
  <AuthProtocol></AuthProtocol>
  <AuthKey></AuthKey>
  <PrivProtocol></PrivProtocol>
  <PrivKey></PrivKey>
</SecurityParam>
<IPv4BasicACL>
  <Number></Number>
</IPv4BasicACL>
<IPv4AdvancedACL>
  <Number></Number>
</IPv4AdvancedACL>
<IPv6BasicACL>
  <Number></Number>
</IPv6BasicACL>
<IPv6AdvancedACL>
  <Number></Number>
</IPv6AdvancedACL>
</User>
</Users>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxUsers in data namespace. 'Group' and 'Role' are two configuration ways. Only one way can take effect at the same time. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'. 'Remote/Address' and ' Remote/VPN' only applicable when creating a row.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityMode	The security model by this user is provided.	Index	Enumeration: 1 – v1 2 – v2c 3 – v3	N/A
Name	User name.	Index	String. Length:1 to 32 characters.	N/A
EngineId	SNMP engine ID.	Index	Hex String. Length: 0 or 10 to 64 characters.	There are 2 ways to create a row: The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user . In this way, the 'EngineId'and 'Adress'and 'VRF'must be zero-length. The second way is using the engine ID of remote SNMP manage. In this way, the 'EngineId' must be zero-length, then both the Remote/Address and Remode/VPN in this row must be included. The number of characters must be even. All-zero and all-F strings are invalid.
Address	Address of the remote manage.	index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Only for remote SNMP manage. IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	index	String. Length: 1 to 31 characters.	Only for remote SNMP manage VRF'must be zero-length if the remote manage is on the public network.
GroupControl	Group control of this user.	Data structure	Members include: - Group - Role	'Group' and 'Role' can not be specified together.
Group	Group name.	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length:1 to 32 characters.	
Role	User role name.	N/A	String. Length:1 to 63 characters.	Multi-instance. Applicable only when 'SecurityMode' is '3 – v3'.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol • AuthKey • PrivProtocol • PrivKey Default: no value is specified.	Applicable only when 'SecurityMode' is '3 – v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: • 1 – MD5 • 2 – SHA	N/A
AuthKey	Authentication key.	N/A	String. Length:1 to 64 characters.	Plaintext key string. Must be specified with 'AuthProtocol'.
PrivProtocol	Encryption algorithm privacy.	N/A for	Enumeration: • 1 – DES • 2 – AES • 3 – 3DES • 4 – AES192 • 5 – AES256	N/A
PrivKey	Privacy key.	N/A	String. Length:1 to 64 characters.	Plaintext key string. Must be specified with 'PrivProtocol'.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSS.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSS.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSSs in this community can access the SNMP agent. If the specified ACL

Column name	Column description	Column type	Data type and restrictions	Remarks
				does not have any rules, no NMS in this community can access the SNMP agent. IPv4BasicACL and IPv4AdvancedACL can't be configured simultaneously.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent. IPv6BasicACL and IPv6AdvancedACL can't be configured simultaneously.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/RemoteManages

This table contains SNMP remote manage information.

XML structure

<SNMP>

```

<RemoteManages>
  <Manage>
    <Address></Address>
    <VRF></VRF>
    <EngineId></EngineId>
  </Manage>
</RemoteManages>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	RemoteManages
Table type	Multi-instance table
Row name	Manage
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxRemoteManages in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
EngineId	SNMP engine ID of the remote manage.	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.

SNMP/TargetHosts

This table contains SNMP target host information.

XML structure

```

<SNMP>

```

```

<TargetHosts>
  <UdpHost>
    <TargetType></TargetType>
    <SecurityName></SecurityName>
    <Address></Address>
    <VRF></VRF>
    <SecurityMode></SecurityMode>
    <SecurityLevel></SecurityLevel>
    <Port></Port>
    <AddressType></AddressType>
  </UdpHost>
</TargetHosts>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	TargetHosts
Table type	Multi-instance table
Row name	UdpHost
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxTargetHosts in data namespace.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetType	Notifications type.	Index	Enumeration: 1 – InformRequest 2 – Trap	N/A
SecurityName	Authentication parameter.	Index	String. Length: 1 to 32 characters.	For SNMPv3, 'SecurityName' specifies an username.
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www.example.com
VRF	VRF name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 0.
SecurityMode	The Security model to be used when generating SNMP notifications.	N/A	Enumeration: 1 – v1 2 – v2c 3 – v3	If 'TargetType' is '1 – InformRequest', only '2 – v2c' and '3 – v3' are applicable.
SecurityLevel	Security level.	N/A	Enumeration: 1 – noAuthNoPriv 2 – authNoPriv 3 – authPriv	Applicable only when 'SecurityMode' is '3 – v3'.
Port	UDP port for SNMP notifications	N/A	Unsigned integer. Value range: 0 to 65535. Default: 162.	N/A
AddressType	Host name type.	N/A	Enumeration: 1 – IPv4 host name 2 – IPv6 host name	If this column is not included, the Address column is an IPv4 or IPv6 address.

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SNMP

SNMP/System

This table contains SNMP system information.

XML structure

```
<SNMP>
  <System>
    <AgentStatus></AgentStatus>
    <Version>
      <V1></V1>
      <V2C></V2C>
      <V3></V3>
    </Version>
    <Location></Location>
    <Contact></Contact>
  </System>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	System
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentStatus	SNMP status	N/A	Enumeration: - enable - disable	N/A
V1	SNMP V1 status	N/A	Enumeration: - enable - disable	N/A
V2C	SNMP V2C status	N/A	Enumeration: enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
V3	SNMP V3 status	N/A	disable Enumeration:	N/A
Location	SNMP physical location information	N/A	- enable - disable String. Length:0 to 255 characters.	N/A
Contact	SNMP contact information	N/A	String. Length:0 to 255 characters.	N/A

SNMP/Agent

This table contains SNMP agent information.

XML structure

```

<SNMP>
  <Agent>
    <LocalEngineId></LocalEngineId>
    <AgentUdpPort></AgentUdpPort>
    <PacketMaxSize></PacketMaxSize>
    <GetLog></GetLog>
    <SetLog></SetLog>
    <NotificationLog></NotificationLog>
  </Agent>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Agent
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalEngineId	Local engine ID of agent	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.
AgentUdpPort	UDP port for receiving SNMP packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
PacketMaxSize	Maximum size of packets that the agent can receive or send Unit: byte.	N/A	Unsigned integer. Value range: 484 to 17940.	N/A
GetLog	Logging status of get.	N/A	Boolean: • true • false	N/A
SetLog	Logging status of set.	N/A	Boolean: • true • false	N/A
NotificationLog	Logging status of notification.	N/A	Boolean: • true • false	N/A

SNMP/Notification

This table contains SNMP notification information.

XML structure

```

<SNMP>
  <Notification>
    <ColdStart></ColdStart>
    <WarmStart></WarmStart>
    <AuthenticationFailure></AuthenticationFailure>
    <QueueSize></QueueSize>
    <QueueLifeTime></QueueLifeTime>
    <TrapSource></TrapSource>
    <InformSource></InformSource>
    <EnableModules>
      <Module></Module>
    </EnableModules>
    <DisableModules>
      <Module></Module>
    </DisableModules>
  </Notification>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Notification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ColdStart	Status of SNMP coldStart notification.	N/A	Boolean: true false	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: true false	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: true false	N/A
QueueSize	Notification queue size.	N/A	Unsigned integer. Value range: 1 to 1000.	N/A
QueueLifeTime	Lifetime of notifications in the SNMP notification queue. Unit: second.	N/A	Unsigned integer. Value range: 1 to 2592000.	N/A
TrapSource	An interface name, of which primary IP address as the source IP address for the traps.	N/A	String. Length: 2 to 47 characters.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.) The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.
InformSource	An interface name, of which primary IP address as the source IP address for the informRequests.	N/A	String. Length: 2 to 47 characters.	Only the interface which can be assigned an IP address. (The interface type is layer 3 but not NULL or controller.)

Column name	Column description	Column type	Data type and restrictions	Remarks
				The configuration will fail if the interface has not been created and will take effect only after a valid IP address is assigned to the specified interface.
EnableModules	Modules of notification function status is enable.	N/A	Members include: Module	For a module that has sub-modules, the status is enable if the notification function of one of its sub-modules is enabled.
Module	Module name.	N/A	String. Length: 1 to 127 characters.	N/A
DisableModules	Modules of notification function status is disable.	N/A	Members include: Module	For a module that has sub-modules, the status is disable if the notification function of any of its sub-modules is disabled.
Module	Module name.	N/A	String. Length: 1 to 127 characters.	N/A

SNMP/Communities

This table contains SNMP community information.

XML structure

```

<SNMP>
  <Communities>
    <Community>
      <Name></Name>
      <Type></Type>
      <Role></Role>
      <MIBView></MIBView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>

```

```

        <Number></Number>
    </IPv6BasicACL>
    <IPv6AdvancedACL>
        <Number></Number>
    </IPv6AdvancedACL>
    <Context></Context>
</Community>
</Communities>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Communities
Table type	Multi-instance table
Row name	Community
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunities. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Community name	Index	String. Length:1 to 32 characters.	N/A
Type	Community type	N/A	Enumeration: 0 – read-only 1 – read-write 2 – use-RBAC	If specified '2 - use-RBAC', then a 'Role' must be included together. For the other enumerations, 'Role' is meaningless, and must not be included.
Role	User role name for the community.	N/A	String. Length:1 to 63 characters.	Applicable only when 'Type' is '2 - use-RBAC'.
MIBView	MIB view name available for the community.	N/A	String. Length:1 to 32 characters.	Applicable only when 'Type' is '0 – read-only' or '1 – read-write'.
IPv4BasicACL	Specifies an IPv4	Data	Members include:	If no ACL is specified, or

Column name	Column description	Column type	Data type and restrictions	Remarks
	basic ACL to filter NMSs.	structure	Number	the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Context	The context mapped to a community.	N/A	String. Length:1 to 32 characters.	If no mapping between an SNMP community and an SNMP context exists, this field is not included.

SNMP/Contexts

This table contains SNMP context information.

XML structure

```
<SNMP>
  <Contexts>
    <Context>
      <Name></Name>
    </Context>
  </Contexts>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxContexts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Context name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent can communicate with each other if the following conditions exist: - No SNMP context is configured on the NMS and the SNMP agent. - The NMS and the SNMP agent use

Column name	Column description	Column type	Data type and restrictions	Remarks
				the same SNMP context.

SNMP/CommunityMappings

This table contains SNMP communities information.

XML structure

```

<SNMP>
  <CommunityMappings>
    <Mapping>
      <Community></Community>
      <Context></Context>
    </Mapping>
  </CommunityMappings>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	CommunityMappings
Table type	Multi-instance table
Row name	Mapping
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxCommunityMappings.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Community	Community name	Index	String. Length: 1 to 32 characters.	An NMS and an SNMP agent communicate with community, this community can map to a context name of processes in system, then the NMS can communicate with specified process.
Context	Context name	N/A	String. Length:1 to 32 characters.	N/A

SNMP/MIBViews

This table contains SNMP MIB view information.

XML structure

```
<SNMP>
  <MIBViews>
    <View>
      <Name></Name>
      <SubTree></SubTree>
      <Type></Type>
      <Mask></Mask>
      <Status></Status>
    </View>
  </MIBViews>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	MIBViews
Table type	Multi-instance table
Row name	View
Restrictions	The system creates the ViewDefault view when the SNMP agent is enabled. In this default MIB view, all MIB objects in the iso subtree but the snmpUsmMIB, snmpVacmMIB, and snmpModules.18 subtrees are accessible. The max number of tables depends on SNMP/Capabilities/MaxMIBViews, including the 4 default MIB view records. After deleting, the default MIB view records will be restored after the system reboots, and the max number of rows can be created do not change.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	View name.	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length:1 to 32 characters.	
SubTree	A MIB subtree by its root node's OID or object name.	Index	String or dotted decimal notation string. Length: 1 to 255 characters.	Example for OID, 1.3.6.1.2.1.1. Example for object name, iso. When creating a row with OIDs, the 'SubTree' will be transform to object name automatic if the whole MIB tree in the system contained these OIDs.
Type	Access type to any node in the subtree.	N/A	Enumeration: 1 – included 2 – excluded	N/A
Mask	A MIB subtree mask	N/A	Hex String. Length: 1 to 32 characters.	N/A
Status	Status of the MIB view.	N/A	Enumeration: 1 – active 2 - inactive	Only SNMP set operation can temporarily disable a MIB view without deleting it.

SNMP/Groups

This table contains SNMP group information.

XML structure

```

<SNMP>
  <Groups>
    <Group>
      <Name></Name>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <ReadView></ReadView>
      <WriteView></WriteView>
      <NotifyView></NotifyView>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
    </Group>
  </Groups>
</SNMP>

```

```

    </IPv4AdvancedACL>
    <IPv6BasicACL>
      <Number></Number>
    </IPv6BasicACL>
    <IPv6AdvancedACL>
      <Number></Number>
    </IPv6AdvancedACL>
  </Group>
</Groups>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxGroups. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name.	Index	String. Length:1 to 32 characters.	N/A
SecurityMode	The security model by this group is provided.	Index	Enumeration: 1 – v1 2 – v2c 3 – v3	N/A
SecurityLevel	Security Level.	Index	Enumeration: 1 – noAuthNoPriv 2 – authNoPriv 3 – authPriv	When 'SecurityMode' is '1 – v2' and '2 – v2c', the applicable value is just '1 - noAuthNoPriv'.
ReadView	MIB view for read-only access.	N/A	String. Length:1 to 32 characters.	N/A
WriteView	MIB view for read and write access.	N/A	String. Length:1 to 32	If no read and write view is specified, this group cannot set any MIB

Column name	Column description	Column type	Data type and restrictions	Remarks
NotifyView	MIB view for notify access.	N/A	characters. String. Length:1 to 32 characters.	object. The SNMP agent sends notifications to the NMS in this group only for the MIB objects included in the notify view. If no notify view is specified, the SNMP agent does not send any notification to the NMS in this group. If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: • Number	If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: • Number	If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to	Data structure	Members include:	If no ACL is specified, or the specified ACL does

Column name	Column description	Column type	Data type and restrictions	Remarks
	filter NMSs.		Number	not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A

SNMP/Users

This table contains SNMP user information.

XML structure

```

<SNMP>
  <Users>
    <User>
      <SecurityMode></SecurityMode>
      <Name></Name>
      <EngineId></EngineId>
      <Address></Address>
      <VRF></VRF>
      <GroupControl>
        <Group></Group>
        <Role></Role>
      </GroupControl>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
      <IPv4BasicACL>
        <Number></Number>
      </IPv4BasicACL>
      <IPv4AdvancedACL>
        <Number></Number>
      </IPv4AdvancedACL>
      <IPv6BasicACL>
        <Number></Number>
      </IPv6BasicACL>

```



```

    <IPv6AdvancedACL>
      <Number></Number>
    </IPv6AdvancedACL>
    <Status></Status>
  </User>
</Users>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxUsers. 'Group' and 'Role' are two configuration ways. Only one way can take effect at the same time. 'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityMode	The security model by this user is provided.	Index	Enumeration: 1 – v1 2 – v2c 3 – v3	N/A
Name	User name.	Index	String. Length:1 to 32 characters.	N/A
EngineId	SNMP engine ID.	Index	Hex String. Length: 0 or 10 to 64 characters.	There are 2 ways to create a row: The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user . In this way, the 'EngineId'and 'Adress'and 'VRF'must be zero-length. The second way is using

Column name	Column description	Column type	Data type and restrictions	Remarks
				the engine ID of remote SNMP manage. In this way, the 'EngineId' Address ' and 'VPN' in this row must be included.
				The number of characters must be even. All-zero and all-F strings are invalid.
Address	Address of the remote manage.	index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Only for remote SNMP manage. IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	index	String. Length: 1 to 31 characters.	Only for remote SNMP manage VRF must be zero-length if the remote manage is on the public network.
GroupControl	Group control of this user.	Data structure	Members include: • Group • Role	'Group' and 'Role' can not be specified together.
Group	Group name.	N/A	String. Length:1 to 32 characters.	N/A
Role	User role name.	N/A	String. Length:1 to 63 characters.	Multi-instance.
SecurityParam	Security parameters of this user.	Data structure	Members include: • AuthProtocol • AuthKey • PrivProtocol • PrivKey	Applicable only when 'SecurityMode' is '3 – v3'. Applicable only when 'SecurityMode' is '3 – v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: • 1 – MD5 • 2 – SHA	N/A
AuthKey	Authentication key.	N/A	String. Length:1 to 64 characters.	Plaintext key string. Must be specified with 'AuthProtocol'.
PrivProtocol	Encryption	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm for privacy.		1 – DES 2 – AES 3 – 3DES 4 – AES192 5 – AES256	
PrivKey	Privacy key.	N/A	String. Length:1 to 64 characters.	Plaintext key string. Must be specified with 'PrivProtocol'. If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.
IPv4BasicACL	Specifies an IPv4 basic ACL to filter NMSs.	Data structure	Members include: Number	If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv4AdvancedACL	Specifies an IPv4 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv4 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
IPv6BasicACL	Specifies an IPv6 basic ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 basic ACL.	N/A	Unsigned integer. Value range: 2000 to 2999.	N/A
IPv6AdvancedACL	Specifies an IPv6 advanced ACL to filter NMSs.	Data structure	Members include: Number	If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can

Column name	Column description	Column type	Data type and restrictions	Remarks
				access the SNMP agent. If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.
Number	Number of IPv6 advanced ACL.	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Status	Status of the user.	N/A	Enumeration: 1 – active 2 - inactive	Only SNMP set operation can temporarily disable a user without deleting it.

SNMP/RemoteManages

This table contains SNMP remote manage information.

XML structure

```

<SNMP>
  <RemoteManages>
    <Manage>
      <Address></Address>
      <VRF></VRF>
      <EngineId></EngineId>
    </Manage>
  </RemoteManages>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	RemoteManages
Table type	Multi-instance table
Row name	Manage
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxRemoteManages.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
EngineId	SNMP engine ID of the remote manage.	N/A	Hex String. Length: 10 to 64 characters.	The number of characters must be even. All-zero and all-F strings are invalid.

SNMP/TargetHosts

This table contains SNMP target host information.

XML structure

```

<SNMP>
  <TargetHosts>
    <UdpHost>
      <TargetType></TargetType>
      <SecurityName></SecurityName>
      <Address></Address>
      <VRF></VRF>
      <SecurityMode></SecurityMode>
      <SecurityLevel></SecurityLevel>
      <Port></Port>
      <AddressType></AddressType>
    </UdpHost>
  </TargetHosts>
</SNMP>

```

Table description

Item	Description
Feature name	SNMP
Table name	TargetHosts
Table type	Multi-instance table

Row name	UdpHost
Restrictions	The max number of tables depends on SNMP/Capabilities/MaxTargetHosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TargetType	Notifications type.	Index	Enumeration: 1 – InformRequest 2 – Trap	N/A
SecurityName	Authentication parameter.	Index	String. Length: 1 to 32 characters.	For SNMPv3, 'SecurityName' specifies an username.
Address	Address of the remote manage.	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VRF instance name.	Index	String. Length: 0 to 31 characters.	If the remote manage is on the public network, the length of characters is 0.
SecurityMode	The Security model to be used when generating SNMP notifications.	N/A	Enumeration: 1 – v1 2 – v2c 3 – v3	If 'TargetType' is '1 – InformRequest', only '2 - v2c' and '3 - v3' are applicable.
SecurityLevel	Security Level.	N/A	Enumeration: 1 – noAuthNoPriv 2 – authNoPriv 3 – authPriv	Applicable only when 'SecurityMode' is '3 – v3'.
Port	UDP port for SNMP notifications	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AddressType	Host name type.	N/A	Enumeration: 1 – IPv4 host name 2 – IPv6 host name	If this column is not included, the Address column is an IPv4 or IPv6 address.

SNMP/Capabilities

This table contains capabilities information.

XML structure

```
<SNMP>
  <Capabilities>
    <MaxCommunities></MaxCommunities>
    <MaxContexts></MaxContexts>
    <MaxCommunityMappings></MaxCommunityMappings>
    <MaxMIBViews></MaxMIBViews>
    <MaxGroups></MaxGroups>
    <MaxUsers></MaxUsers>
    <MaxRemoteManages></MaxRemoteManages>
    <MaxTargetHosts></MaxTargetHosts>
    <MaxV3Roles></MaxV3Roles>
  </Capabilities>
</SNMP>
```

Table description

Item	Description
Feature name	SNMP
Table name	Capabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxCommunities	Maximum number of communities.	N/A	Unsigned integer.	N/A
MaxContexts	Maximum number of contexts.	N/A	Unsigned integer.	N/A
MaxCommunityMappings	Maximum number of community to context mappings.	N/A	Unsigned integer.	Each community can only mapping to one context.
MaxMIBViews	Maximum number of MIB views.	N/A	Unsigned integer.	N/A
MaxGroups	Maximum number of groups.	N/A	Unsigned integer.	N/A
MaxUsers	Maximum number of users.	N/A	Unsigned integer.	N/A
MaxRemoteManages	Maximum number of remote manages.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxTargetHosts	Maximum number of target-hosts.	N/A	Unsigned integer.	N/A
MaxV3Roles	Maximum number of roles for one SNMPv3 user.	N/A	Unsigned integer.	Each SNMPv3 user can support multi-roles.

SNMP/Statistics

This table contains SNMP statistics information.

XML structure

```

<SNMP>
  <Statistics>
    <InPkts></InPkts>
    <OutPkts></OutPkts>
    <InBadVersions></InBadVersions>
    <InBadCommunityNames></InBadCommunityNames>
    <InBadCommunityUses></InBadCommunityUses>
    <InASNParseErrs></InASNParseErrs>
    <InTooBigs></InTooBigs>
    <InNoSuchNames></InNoSuchNames>
    <InBadValues></InBadValues>
    <InReadOnly></InReadOnly>
    <InGenErrs></InGenErrs>
    <InTotalReqVars></InTotalReqVars>
    <InTotalSetVars></InTotalSetVars>
    <InGetRequests></InGetRequests>
    <InGetNexts></InGetNexts>
    <InSetRequests></InSetRequests>
    <InGetResponses></InGetResponses>
    <InTraps></InTraps>
    <OutTooBigs></OutTooBigs>
    <OutNoSuchNames></OutNoSuchNames>
    <OutBadValues></OutBadValues>
    <OutGenErrs></OutGenErrs>
    <OutGetRequests></OutGetRequests>
    <OutGetNexts></OutGetNexts>
    <OutSetRequests></OutSetRequests>
    <OutGetResponses></OutGetResponses>
    <OutTraps></OutTraps>
    <SilentDrops></SilentDrops>
  </Statistics>
</SNMP>

```


Table description

Item	Description
Feature name	SNMP
Table name	Statistics
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
InPkts	The total number of Messages delivered to the SNMP entity from the transport service.	N/A	Unsigned integer.	N/A
OutPkts	The total number of SNMP Messages which were passed from the SNMP protocol entity to the transport service.	N/A	Unsigned integer.	N/A
InBadVersions	The total number of SNMP Messages which were delivered to the SNMP protocol entity and were for an unsupported SNMP version	N/A	Unsigned integer.	N/A
InBadCommunityNames	The total number of SNMP Messages delivered to the SNMP protocol entity which used a SNMP community name not known to said entity.	N/A	Unsigned integer.	N/A
InBadCommunityUses	The total number of SNMP Messages delivered to the SNMP protocol entity which represented an	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SNMP operation which was not allowed by the SNMP community named in the Message.			
InASNParseErrors	The total number of ASN.1 or BER errors encountered by the SNMP protocol entity when decoding received SNMP Messages.	N/A	Unsigned integer.	N/A
InTooBig	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is 'tooBig'.	N/A	Unsigned integer.	N/A
InNoSuchNames	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is 'noSuchName'.	N/A	Unsigned integer.	N/A
InBadValues	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is 'badValue'.	N/A	Unsigned integer.	N/A
InReadOnly	The total number valid SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of the error-status field is 'readOnly'.	N/A	Unsigned integer.	N/A
InGenErrs	The total number of SNMP PDUs which were delivered to the SNMP protocol entity and for which the value of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the error-status field is 'genErr'			
InTotalReqVars	The total number of MIB objects which have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs.	N/A	Unsigned integer.	N/A
InTotalSetVars	The total number of MIB objects which have been altered successfully by the SNMP protocol entity as the result of receiving valid SNMP Set-Request PDUs.	N/A	Unsigned integer.	N/A
InGetRequests	The total number of SNMP Get-Request PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InGetNexts	The total number of SNMP Get-Next PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InSetRequests	The total number of SNMP Set-Request PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InGetResponses	The total number of SNMP Get-Response PDUs which have been accepted and processed by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
InTraps	The total number	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of SNMP Trap PDUs which have been accepted and processed by the SNMP protocol entity.			
OutTooBigs	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is 'tooBig.'	N/A	Unsigned integer.	N/A
OutNoSuchNames	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status is 'noSuchName'.	N/A	Unsigned integer.	N/A
OutBadValues	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is 'badValue'.	N/A	Unsigned integer.	N/A
OutGenErrs	The total number of SNMP PDUs which were generated by the SNMP protocol entity and for which the value of the error-status field is 'genErr'.	N/A	Unsigned integer.	N/A
OutGetRequests	The total number of SNMP Get-Request PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutGetNexts	The total number of SNMP Get-Next PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutSetRequests	The total number of SNMP Set-Request	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PDUs which have been generated by the SNMP protocol entity.			
OutGetResponses	The total number of SNMP Get-Response PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutTraps	The total number of SNMP Trap PDUs which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
SilentDrops	The total number of Confirmed Class PDUs (such as GetRequest-PDUs, GetNextRequest-PDUs, GetBulkRequest-PDUs, SetRequest-PDUs, and InformRequest-PDUs) delivered to the SNMP entity which were silently dropped because the size of a reply containing an alternate Response Class PDU (such as a Response-PDU) with an empty variable-bindings field was greater than either a local constraint or the maximum message size associated with the originator of the request.	N/A	Unsigned integer.	N/A

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SSH

SSH/Server

This table contains information about global SSH Server functions.

XML structure

```
<SSH>
  <Server>
    <STelnetState></STelnetState>
    <SFTPState></SFTPState>
    <SCPState></SCPState>
    <DSCP></DSCP>
    <DSCP6></DSCP6>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <SFTPIdeTimeout></SFTPIdeTimeout>
    <RekeyInterval></RekeyInterval>
    <AuthRetries></AuthRetries>
    <AuthTimeout></AuthTimeout>
    <CompatibleSSH1XState></CompatibleSSH1XState>
  </Server>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SSH Server functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
STelnetState	Global STelnet Server feature	N/A	Boolean: true—Enables STelnet Server. false—Disables STelnet Server(default).
SFTPState	Global SFTP Server feature	N/A	Boolean: true—Enables SFTP Server. false—Disables SFTP Server(default).
SCPState	Global SCP Server feature	N/A	Boolean: true—Enables SCP Server. false—Disables SCP Server(default).
DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48
DSCP6	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
SFTPIidleTimeout	Specify SFTP timeout value(minute)	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 10.
RekeyInterval	Specify the SSH server key rekey-interval(hour)	N/A	Unsigned integer. Value range: 1 to 24.
AuthRetries	Specify authentication retry times	N/A	Unsigned integer. Value range: 1 to 5. Default value: 3.
AuthTimeout	Specify authentication timeout(second)	N/A	Unsigned integer. Value range: 1 to 120. Default value: 60
CompatibleSSH1XState	The SSH Server compatible ssh1x	N/A	Boolean: true—Enables SSH Server compatible ssh1x (default). false—Disables SSH Server compatible ssh1x.

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SSH

SSH/Capabilities

This table contains the capabilities information of the SSH.

XML structure

```
<SSH>
  <Capabilities>
    <CompatibleSSH1XStateSupport></CompatibleSSH1XStateSupport>
    <RekeyIntervalSupport></RekeyIntervalSupport>
  </Capabilities>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
CompatibleSSH1XStateSupport	Whether The SSH Server compatible ssh1x is supported.	N/A	Boolean: - true - false
RekeyIntervalSupport	Whether the SSH server key rekey-interval is supported.	N/A	Boolean: true false

SSH/Server

This table contains global SSH Server information.

XML structure

```
<SSH>
  <Server>
    <STelnetState></STelnetState>
    <SFTPState></SFTPState>
    <SCPState></SCPState>
    <DSCP></DSCP>
    <DSCP6></DSCP6>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <SFTPIidleTimeout></SFTPIidleTimeout>
    <RekeyInterval></RekeyInterval>
    <AuthRetries></AuthRetries>
    <AuthTimeout></AuthTimeout>
    <CompatibleSSH1XState></CompatibleSSH1XState>
  </Server>
</SSH>
```

Table description

Item	Description
Feature name	SSH
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SSH Server configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
STelnetState	Global STelnet Server feature	N/A	Boolean: true—Enables STelnet Server. false—Disables STelnet Server(default).
SFTPState	Global SFTP Server feature	N/A	Boolean: true—Enables SFTP Server. false—Disables SFTP Server(default).

Column name	Column description	Column type	Data type and restrictions
SCPState	Global SCP Server feature	N/A	Boolean: true—Enables SCP Server. false—Disables SCP Server(default).
DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48
DSCP6	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the SSH clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
SFTPIdeTimeout	Specify SFTP timeout value(minute)	N/A	Unsigned integer. Value range: 1 to 35791. Default value: 10. Unit: minute.
RekeyInterval	Specify the SSH server key rekey-interval(hour)	N/A	Unsigned integer. Value range: 1 to 24. Uint: hour.
AuthRetries	Specify authentication retry times	N/A	Unsigned integer. Value range: 1 to 5. Default value: 3.
AuthTimeout	Specify authentication timeout(second)	N/A	Unsigned integer. Value range: 1 to 120. Default value: 60 Unit: second.
CompatibleSSH1XState	The SSH Server compatible ssh1x	N/A	Boolean: true—Enables SSH Server compatible ssh1x (default). false—Disables SSH Server compatible ssh1x.

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SSL

SSL/ClientPolicies

This table is used to operate SSL client policies.

XML structure

```
<SSL>
  <ClientPolicies>
    <Policy>
      <Name></Name>
      <SSLVersion></SSLVersion>
      <PKIDomain></PKIDomain>
      <PerferCipherList>
        <CipherItem></CipherItem>
      </PerferCipherList>
      <ServerVerify></ServerVerify>
    </Policy>
  </ClientPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ClientPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the SSL client policy	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
SSLVersion	The protocol version of ssl client	N/A	Enumeration: • 1—TSL 1.0 • 2—SSL 3.0 Default value is TSL 1.0	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PKIDomain	Specify a PKI domain for the SSL client policy	N/A	String. Length: 1 to 31 characters. Case insensitive	N/A
PerferCipherList	Preferential cipher list	Data structure	Members include: CipherItem.	N/A
CipherItem	The cipher suite number for SSL client	N/A	Unsigned integer. Value range: 1 to 11 The cipher suite number is defined by SSLCapabilities table.	Contains up to 1 CipherItem in PerferCipher.
ServerVerify	If verify SSL server	N/A	Boolean: true—Verify SSL server. false—Don't verify SSL server Default value is true	N/A

SSL/ServerPolicies

This table is used to operate SSL server policies.

XML structure

```

<SSL>
  <ServerPolicies>
    <Policy>
      <Name></Name>
      <SessionCacheSize></SessionCacheSize>
      <SessionTimeout></SessionTimeout>
      <PKIDomain></PKIDomain>
      <CipherSuiteList>
        <CipherItem></CipherItem>
      </CipherSuiteList>
      <ClientVerify></ClientVerify>
      <ClientVerifyMode></ClientVerifyMode>
    </Policy>
  </ServerPolicies>
</SSL>

```

Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
Table type	Multi-instance table

Item	Description
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the SSL server policy	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
SessionCacheSize	The maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480 Default value is 500	N/A
SessionTimeout	The session timeout value	N/A	Unsigned integer. Value range: 0 to 86400 Default value is 3600	N/A
PKIDomain	Specify an PKI domain for the SSL server policy	N/A	String. Length: 1 to 31 characters. Case insensitive	N/A
CipherSuiteList	The list of cipher suite	Data structure	Members include: CipherItem.	N/A
CipherItem	The cipher suite number for SSL server	N/A	Unsigned integer. Value range: 1 to 11 The cipher suite number is defined by SSLCapabilities table.	Contains up to 11 CipherItems in CipherSuiteList. Default value is all cipher suite
ClientVerify	If verify SSL client	N/A	Boolean: true—Verify SSL client. false—Don't verify SSL client Default value is false	N/A
ClientVerifyMode	Authenticate client mode	N/A	Unsigned integer. 0—Don't verify SSL client 1—Verify SSL client. 2—Verify SSL client is optional. Default value is 0.	N/A

SSL/SSLGlobalConfig

This table is used to operate SSL global config.

XML structure

```
<SSL>
  <SSLGlobalConfig>
    <SSL3Enabled></SSL3Enabled>
    <RenegotiationEnabled></RenegotiationEnabled>
  </SSLGlobalConfig>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	SSLGlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
SSL3Enabled	Enable SSL3.0.	N/A	Boolean: • true—Enable(default). • false—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: • true—Enable(default). • false—Disable.

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SSL

SSL/ClientPolicies

This table is used to get SSL client policies.

XML structure

```
<SSL>
  <ClientPolicies>
    <Policy>
      <Name></Name>
      <SSLVersion></SSLVersion>
      <PKIDomain></PKIDomain>
      <PerferCipherList>
        <CipherItem></CipherItem>
      </PerferCipherList>
      <ServerVerify></ServerVerify>
    </Policy>
  </ClientPolicies>
</SSL>
```

Table description

Item	Description
Feature name	SSL
Table name	ClientPolicies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the SSL client policy	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
SSLVersion	The protocol version of ssl client	N/A	Enumeration: • 1—TSL 1.0 • 2—SSL 3.0 Default value is TSL 1.0	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PKIDomain	Specify a PKI domain for the SSL client policy	N/A	String. Length: 1 to 31 characters. Case insensitive	N/A
PerferCipherList	Preferential cipher list	Data structure	Members include: CipherItem.	N/A
CipherItem	The cipher suite number for SSL client	N/A	Unsigned integer. Value range: 1 to 11 The cipher suite number is defined by SSLCapabilities table.	Contains up to 1 CipherItem in PerferCipher.
ServerVerify	If verify SSL server	N/A	Boolean: true—Verify SSL server. false—Don't verify SSL server Default value is true	N/A

SSL/ServerPolicies

This table is used to get SSL server policies.

XML structure

```

<SSL>
  <ServerPolicies>
    <Policy>
      <Name></Name>
      <SessionCacheSize></SessionCacheSize>
      <SessionTimeout></SessionTimeout>
      <PKIDomain></PKIDomain>
      <CipherSuiteList>
        <CipherItem></CipherItem>
      </CipherSuiteList>
      <ClientVerify></ClientVerify>
      <ClientVerifyMode></ClientVerifyMode>
    </Policy>
  </ServerPolicies>
</SSL>

```

Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
Table type	Multi-instance table

Item	Description
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The name of the SSL server policy	Index	String. Length: 1 to 31 characters. Case insensitive	N/A
SessionCacheSize	The maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480 Default value is 500	N/A
SessionTimeout	The session timeout value	N/A	Unsigned integer. Value range: 0 to 86400 Default value is 3600	N/A
PKIDomain	Specify a PKI domain for the SSL server policy	N/A	String. Length: 1 to 31 characters. Case insensitive	N/A
CipherSuiteList	The list of cipher suite	Data structure	Members include: CipherItem.	N/A
CipherItem	The cipher suite number for SSL server	N/A	Unsigned integer. Value range: 1 to 11 The cipher suite number is defined by SSLCapabilities table.	Contains up to 11 CipherItems in CipherSuiteList. Default value is all cipher suite
ClientVerify	If verify SSL client	N/A	Boolean: true—Verify SSL client. false—Don't verify SSL client Default value is false	N/A
ClientVerifyMode	Authenticate client mode	N/A	Unsigned integer. 0—Don't verify SSL client. 1—Verify SSL client. 2—Verify SSL client is optional.	N/A

SSL/SSLCapabilities

This table displays all the algorithm capabilities that the SSL module support.

XML structure

```
<SSL>
  <SSLCapabilities>
```

```

<SSLCapability>
  <ID></ID>
  <Name></Name>
  <Strength></Strength>
  <IsDefaultCipherSuite></IsDefaultCipherSuite>
</SSLCapability>
</SSLCapabilities>
</SSL>

```

Table description

Item	Description
Feature name	SSL
Table name	SSLCapabilities
Table type	Multi-instance table
Row name	SSLCapability
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	SSL supports algorithm ID	Index	Unsigned integer.	N/A
Name	SSL supports algorithm name	N/A	String. Length: 1 to 255 characters Case insensitive.	N/A
Strength	The strength of the algorithm	N/A	Unsigned integer	Biger Value, More strong.
IsDefaultCipherSuite	If the algorithm is default cipher suite.	N/A	Boolean: true—The algorithm is the default false—The algorithm isn't the default	

SSL/SSLGlobalConfig

This table is used to operate SSL global config.

XML structure

```

<SSL>
  <SSLGlobalConfig>
    <SSL3Enabled></SSL3Enabled>

```

```

    <RenegotiationEnabled></RenegotiationEnabled>
  </SSLGlobalConfig>
</SSL>

```

Table description

Item	Description
Feature name	SSL
Table name	SSLGlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SSL3Enabled	Enable SSL3.0.	N/A	Boolean: true—Enable. false—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: true—Enable. false—Disable.

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XML structure	4
Table description	4
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SSLVPN/ClearIpacStatsSessions	5
XML structure	5
Table description	5
Columns	5

SSLVPN

SSLVPN/LogoutAlls

This table contains information about force logout of all SSL VPN users.

XML structure

```
<SSLVPN>
  <LogoutAlls>
    <LogoutAll>
      <ContextName></ContextName>
    </LogoutAll>
  </LogoutAlls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutAlls
Table type	Multi-instance table
Row name	LogoutAll
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/LogoutUsers

This table contains information about force logout of SSL VPN users by username.

XML structure

```
<SSLVPN>
  <LogoutUsers>
    <LogoutUser>
```

```

        <ContextName></ContextName>
        <UserName></UserName>
    </LogoutUser>
</LogoutUsers>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutUsers
Table type	Multi-instance table
Row name	LogoutUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Username	Username	Index	String. Length: 1 to 63 characters.

SSLVPN/LogoutSessions

This table contains information about force logout of SSL VPN users by session ID.

XML structure

```

<SSLVPN>
  <LogoutSessions>
    <LogoutSession>
      <ContextName></ContextName>
      <SessionID></SessionID>
    </LogoutSession>
  </LogoutSessions>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	LogoutSessions
Table type	Multi-instance table
Row name	LogoutSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.

SSLVPN/ClearAllIpacStats

This table contains information about resetting IP access statistics of all SSLVPN users.

XML structure

```
<SSLVPN>
  <ClearAllIpacStats>
    <Clear></Clear>
  </ClearAllIpacStats>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearAllIpacStats
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears IP access statistics on all users.	N/A	This column must be empty.	Clear

SSLVPN/ClearIpacStatsContexts

This table contains information about resetting IP access statistics of SSL VPN users within specific SSLVPN context.

XML structure

```
<SSLVPN>
  <ClearIpacStatsContexts>
    <ClearIpacStatsContext>
      <ContextName></ContextName>
    </ClearIpacStatsContext>
  </ClearIpacStatsContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearIpacStatsContexts
Table type	Multi-instance table
Row name	ClearIpacStatsContext
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

SSLVPN/ClearIpacStatsSessions

This table contains information about resetting IP access statistics of SSL VPN users by session ID.

XML structure

```
<SSLVPN>
  <ClearIpacStatsSessions>
    <ClearIpacStatsSession>
      <ContextName></ContextName>
      <SessionID></SessionID>
    </ClearIpacStatsSession>
  </ClearIpacStatsSessions>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ClearIpacStatsSessions
Table type	Multi-instance table
Row name	ClearIpacStatsSession
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.

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XML structure	28
Table description	28
Columns	28
SSLVPN/UrlLists	29
XML structure	29
Table description	29
Columns	30
SSLVPN/UrlItems	30
XML structure	30
Table description	30
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XML structure	31
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XML structure	32
Table description	32
Columns	33
SSLVPN/UrlResources	33
XML structure	33
Table description	33
Columns	34
SSLVPN/SnatResources	34
XML structure	34
Table description	34
Columns	35
SSLVPN/UserControls	35
XML structure	35
Table description	35
Columns	36
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XML structure	36
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SSLVPN

SSLVPN/Gateways

This table contains SSL VPN gateway configuration information.

XML structure

```
<SSLVPN>
  <Gateways>
    <Gateway>
      <Name></Name>
      <AddressType></AddressType>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <VRF></VRF>
      <SSLServerPolicy></SSLServerPolicy>
      <HTTPRedirect></HTTPRedirect>
      <RedirectPort></RedirectPort>
      <Enable></Enable>
    </Gateway>
  </Gateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Gateways
Table type	Multi-instance table
Row name	Gateway
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			letters, digits, and underscores (_).	
AddressType	Whether the SSL VPN gateway address is an IPv6 address	N/A	Boolean: - false—IPv4. - true—IPv6.	N/A
Ipv4Address	IPv4 address of the SSL VPN gateway	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address of the SSL VPN gateway	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
PortNumber	Port number of the SSL VPN gateway	N/A	Unsigned integer. Value range: 443, 1025 to 65535. Default: 443.	N/A
VRF	Name of the VRF instance associated with the SSL VPN gateway	N/A	String. Length: 0 to 31 characters.	If the gateway is on the public network, the length of characters is 0.
SSLServerPolicy	Name of the SSL server policy used by the SSL VPN gateway	N/A	String, case insensitive. Length: 1 to 31 characters.	By default, no SSL server policy is used by the SSL VPN gateway.
HTTPRedirect	Whether HTTP traffic is redirected	N/A	Boolean: - true—Redirected. - false—Not redirected.	N/A
RedirectPort	Port number of the redirected HTTP traffic	N/A	Unsigned integer. Value range: 80, 1025 to 65535. Default: 80.	N/A
Enable	Whether the SSL VPN gateway is enabled	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A

SSLVPN/Contexts

This table contains SSL VPN context configuration information.

XML structure

```

<SSLVPN>
  <Contexts>
    <Context>
      <Name></Name>
      <Gateway>

```

```

    <Name></Name>
    <AccessType></AccessType>
    <Domain></Domain>
    <VirtualHost></VirtualHost>
</Gateway>
<VRF></VRF>
<MaxUsers></MaxUsers>
<IdleTimeout></IdleTimeout>
<AAADomain></AAADomain>
<EMOServer>
    <Address></Address>
    <PortNumber></PortNumber>
</EMOServer>
<DefaultPolicyGroup></DefaultPolicyGroup>
<Enable></Enable>
</Context>
</Contexts>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The Contexts table does not support multiple links. Tables ContextGateways and contexts_v2 are added to support multiple links, and new features are added in the these two tables. The Contexts table is included only for compatibility. No new features will be added to this table. Use new tables ContextGateway and contexts_v2 instead of this table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Gateway	Associated gateway	Data structure	Members include: - Name. - AccessType.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- Domain. - VirtualHost.	
Name	Associated gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: 1—domain. 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes. Default: 30 minutes.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A
EMOServer	EMO server	Data structure	Members include: - Address. - PortNumber.	N/A
Address	IPv4 address or host name of the	N/A	IPv4 address: String, dotted decimal notation.	IPv4 address example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	EMO server		Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A

SSLVPN/Contexts_v2

This table contains SSL VPN context_v2 configuration information.

XML structure

```

<SSLVPN>
  <Contexts_v2>
    <Context_v2>
      <Name></Name>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
      <IdleTimeout></IdleTimeout>
      <TrafficThreshold></TrafficThreshold>
      <AAADomain></AAADomain>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <MessageServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </MessageServer>
      <SmsImcServer>
        <Address></Address>
        <PortNumber></PortNumber>
        <VRF></VRF>
      </SmsImcServer>
    </Context_v2>
  </Contexts_v2>
</SSLVPN>

```

```

    <DefaultPolicyGroup></DefaultPolicyGroup>
    <SSLClientPolicy></SSLClientPolicy>
    <Enable></Enable>
  </Context_v2>
</Contexts_v2>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts_v2
Table type	Multi-instance table
Row name	Context_v2
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes. Default: 30 minutes.	N/A
TrafficThreshold	Set the minimum traffic to avoid idle-cut	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			/\ ":*?<>@ The string cannot be any of the following values: d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	
EMOServer	EMO server	Data structure	Members include: - Address. - PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
MessageServer	Message server	Data structure	Members include: - Address. - PortNumber.	N/A
Address	IPv4 address or host name of the Message server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the Message server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
SmsImcServer	Short Message Service of IMC server	Data structure	Members include: - Address. - PortNumber.	New feature, not compatible with the old table.
Address	IPv4 address of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table. Example: 1.1.1.1.
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
SmsImc	Whether the SMS-IMC	N/A	Boolean:	New feature, not compatible with the old

Column name	Column description	Column type	Data type and restrictions	Remarks
	message authentication of the SSL VPN context is enabled.		- true—Enabled. - false—Disabled (default).	table.
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
SSLClientPolicy	Name of the SSL client policy used by the SSL VPN context	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old table.
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A

SSLVPN/ContextGateways

This table contains information about the SSL VPN gateway associated with the [context](#).

XML structure

```

<SSLVPN>
  <ContextGateways>
    <ContextGateway>
      <ContextName></ContextName>
      <GatewayName></GatewayName>
      <AccessType></AccessType>
      <Domain></Domain>
      <VirtualHost></VirtualHost>
    </ContextGateway>
  </ContextGateways>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextGateways
Table type	Multi-instance table
Row name	ContextGateway
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
GatewayName	Associated gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: 1—domain. 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A

SSLVPN/IpAcContexts

This table contains SSL VPN IP access configuration information for context.

XML structure

```

<SSLVPN>
  <IpAcContexts>
    <IpAcContext>
      <ContextName></ContextName>
      <AcIfIndex></AcIfIndex>
      <KeepAlive></KeepAlive>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <DNSServer>

```



```

    <Primary></Primary>
    <Secondary></Secondary>
  </DNSServer>
  <WINSServer>
    <Primary></Primary>
    <Secondary></Secondary>
  </WINSServer>
  <ConnCloseLog></ConnCloseLog>
</IpAcContext>
</IpAcContexts>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContexts
Table type	Multi-instance table
Row name	IpAcContext
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AcIfIndex	Index of the referenced SSL VPN access interface	N/A	Unsigned integer.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds. Default: 30 seconds.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: - Name. - Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters. Invalid characters are \t \r \n ?.	
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
DNSServer	DNS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
WINSServer	WINS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ConnCloseLog	Whether IP access connection close logging of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A

SSLVPN/UISettings

This table contains SSL VPN context UI configuration information.

XML structure

```

<SSLVPN>
  <UISettings>
    <UISetting>
      <ContextName></ContextName>
      <VerifyCode></VerifyCode>
      <DPWD></DPWD>
      <DisplayLogo></DisplayLogo>
      <LogoFile></LogoFile>
      <LoginMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginMsg>
    </UISetting>
  </UISettings>
</SSLVPN>

```

```

<Title>
  <English></English>
  <Chinese></Chinese>
</Title>
<CertificateAuthen></CertificateAuthen>
<PasswordAuthen></PasswordAuthen>
<AuthenUse></AuthenUse>
<UserLog></UserLog>
<ResourceLog></ResourceLog>
<Filter></Filter>
<Brief></Brief>
</UISetting>
</UISettings>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UISettings
Table type	Multi-instance table
Row name	UISetting
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
VerifyCode	Whether the verify code is enabled	N/A	Boolean: - true—Enabled. - false—Disabled (default).
DPWD	Whether the dynamic password is enabled	N/A	Boolean: - true—Enabled. - false—Disabled (default).
DisplayLogo	Whether the logo is displayed	N/A	Boolean: - true—Displayed (default). - false—Not displayed.
LogoFile	Logo file path	N/A	String, case insensitive. Length: 1 to 255 characters.

Column name	Column description	Column type	Data type and restrictions
LoginMsg	Web login message	Data structure	Members include: - English. - Chinese.
English	English login message string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese login message string	N/A	String. Length: 1 to 255 characters.
Title	Web title	Data structure	Members include: - English. - Chinese.
English	English title string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese title string	N/A	String. Length: 1 to 255 characters.
CertificateAuthen	Whether certificate authentication of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).
ResourceLogging	Whether Resource logging of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).
UserLog	Whether user logging of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled (default).
PasswordAuthen	Whether password authentication of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled(default). - false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: 0—all(default). 1—any-one.

SSLVPN/PortForwardLists

This table contains SSL VPN port forwarding list configuration information.

XML structure

```
<SSLVPN>
  <PortForwardLists>
    <PortForwardList>
      <ContextName></ContextName>
      <ListName></ListName>
    </PortForwardList>
  </PortForwardLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardLists
Table type	Multi-instance table
Row name	PortForwardList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/PortForwardItems

This table contains SSL VPN port forwarding entry configuration information.

XML structure

```
<SSLVPN>
  <PortForwardItems>
    <PortForwardItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
    </PortForwardItem>
  </PortForwardItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItems
Table type	Multi-instance table
Row name	PortForwardItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	Index	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	Index	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).

Column name	Column description	Column type	Data type and restrictions
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.

SSLVPN/Ipv4AddressPools

This table contains SSL VPN IPv4 address pool configuration information.

XML structure

```

<SSLVPN>
  <Ipv4AddressPools>
    <Ipv4AddressPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Ipv4AddressPool>
  </Ipv4AddressPools>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv4AddressPools
Table type	Multi-instance table
Row name	Ipv4AddressPool
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IP address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AddressStart	Start IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be larger than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/RouteLists

This table contains SSL VPN route list configuration information.

XML structure

```
<SSLVPN>
  <RouteLists>
    <RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </RouteList>
  </RouteLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteLists
Table type	Multi-instance table
Row name	RouteList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/RouteItems

This table contains SSL VPN route entry configuration information.

XML structure

```
<SSLVPN>
  <RouteItems>
    <RouteItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </RouteItem>
  </RouteItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteItems
Table type	Multi-instance table
Row name	RouteItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 0—Exclude. 1—Include.	N/A
Ipv4Address	Destination IPv4 address of the route	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

SSLVPN/PolicyGroups

This table contains SSL VPN policy group basic configuration information.

XML structure

```
<SSLVPN>
  <PolicyGroups>
    <PolicyGroup>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
    </PolicyGroup>
  </PolicyGroups>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PolicyGroups
Table type	Multi-instance table
Row name	PolicyGroup

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/TcpAcPolicys

This table contains SSL VPN TCP access configuration information for policy groups.

XML structure

```

<SSLVPN>
  <TcpAcPolicys>
    <TcpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <PortForwardName></PortForwardName>
      <URIACLName></URIACLName>
      <Ipv4AcINumber></Ipv4AcINumber>
      <Ipv6AcINumber></Ipv6AcINumber>
    </TcpAcPolicy>
  </TcpAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	TcpAcPolicys
Table type	Multi-instance table
Row name	TcpAcPolicy
Restrictions	None

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
PortForwardName	SSL VPN port forwarding list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Ipv4AcNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AcNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.

SSLVPN/IpAcPolicys

This table contains SSL VPN IP access configuration information for policy groups.

XML structure

```

<SSLVPN>
  <IpAcPolicys>
    <IpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <KeepAlive></KeepAlive>
      <Ipv4AcNumber></Ipv4AcNumber>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
    </IpAcPolicy>
  </IpAcPolicys>
</SSLVPN>

```

```

<AccessRoute>
  <RouteType></RouteType>
  <RouteList></RouteList>
  <Ipv4Address></Ipv4Address>
  <Ipv4PrefixLength></Ipv4PrefixLength>
</AccessRoute>
<DNSServer>
  <Primary></Primary>
  <Secondary></Secondary>
</DNSServer>
<WINSServer>
  <Primary></Primary>
  <Secondary></Secondary>
</WINSServer>
</IpAcPolicy>
</IpAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table
Row name	IpAcPolicy
Restrictions	The IpacPolicys table does not support multiple user groups. The IpacPolicys_v2 table is added to support multiple user groups. The IpacPolicys table is included only for compatibility. No new features will be added to this table. Use the new table IpacPolicys_v2 instead of this table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds. Default: 30 seconds.	N/A
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: - Name. - Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
AccessRoute	Route issued to the client	Data structure	Members include: - RouteType. - RouteList. - Ipv4Address. - Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 1—Route list. 2—IPv4 address. 3—All.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when RouteType is 1.
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Available when RouteType is 2.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	Available when RouteType is 2.
DNSServer	DNS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
WINSServer	WINS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/IpAcPolicys_v2

This table contains SSL VPN IP access configuration information for policy groups.

XML structure

```

<SSLVPN>
  <IpAcPolicys_v2>
    <IpAcPolicy_v2>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AcINumber></Ipv4AcINumber>
      <Ipv6AcINumber></Ipv6AcINumber>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </AccessRoute>
      <ForceAll></ForceAll>
      <URIACLName></URIACLName>
    </IpAcPolicy_v2>
  </IpAcPolicys_v2>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys_v2
Table type	Multi-instance table
Row name	IpAcPolicy_v2
Restrictions	None
Support for row creation and	No

deletion	
----------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AcINumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv6AcINumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	New feature, not compatible with the old table.
AccessRoute	Route issued to the client	Data structure	Members include: - RouteType. - RouteList. - Ipv4Address. - Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 1—Route list. 2—IPv4 address.	N/A
ForceAll	Whether the force all is enabled	N/A	Boolean: - false—Enabled. - true—Disabled.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	Available when RouteType is 1.
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Available when RouteType is 2.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	Available when RouteType is 2.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	New feature, not compatible with the old table.

SSLVPN/URIACLs

This table contains SSL VPN URI ACL configuration information.

XML structure

```
<SSLVPN>
  <URIACLs>
    <URIACL>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
    </URIACL>
  </URIACLs>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLs
Table type	Multi-instance table
Row name	URIACL
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/URIACLItems

This table contains SSL VPN URI ACL entry configuration information.

XML structure

```
<SSLVPN>
  <URIACLItems>
    <URIACLItem>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
      <RuleNumber></RuleNumber>
      <Action></Action>
      <Pattern></Pattern>
    </URIACLItem>
  </URIACLItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLItems
Table type	Multi-instance table
Row name	URIACLItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RuleNumber	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Action	Action	N/A	Unsigned integer. Value range: 1 to 2. 1—Permit. 2—Deny.
Pattern	Rule pattern	N/A	String, case insensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 256 characters.

SSLVPN/WebAcPolicys

This table contains SSL VPN Web access configuration information for policy groups.

XML structure

```

<SSLVPN>
  <WebAcPolicys>
    <WebAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AcINumber></Ipv4AcINumber>
      <Ipv6AcINumber></Ipv6AcINumber>
      <URIACLName></URIACLName>
    </WebAcPolicy>
  </WebAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcPolicys
Table type	Multi-instance table
Row name	WebAcPolicy
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters.

Column name	Column description	Column type	Data type and restrictions	
			The value can contain Chinese characters. Invalid characters are \t \r \n ?.	
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	
Ipv6AclNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

SSLVPN/UrlLists

This table contains SSL VPN URL list configuration information.

XML structure

```

<SSLVPN>
  <UrlLists>
    <UrlList>
      <ContextName></ContextName>
      <ListName></ListName>
      <Heading></Heading>
    </UrlList>
  </UrlLists>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlLists
Table type	Multi-instance table
Row name	UrlList
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Heading	SSL VPN URL list heading	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlItems

This table contains SSL VPN URL entry configuration information.

XML structure

```
<SSLVPN>
  <UrlItems>
    <UrlItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <UrlName></UrlName>
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
    </UrlItem>
  </UrlItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItems
Table type	Multi-instance table
Row name	UrlItem
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
UrlName	URL name	Index	String, case insensitive. Length: 1 to 31 characters.
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. the string can contain only letters, digits, and underscores(_).

SSLVPN/SnatPools

This table contains SSL VPN SNAT pool configuration information.

XML structure

```
<SSLVPN>
  <SnatPools>
    <SnatPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </SnatPool>
  </SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatPools
Table type	Multi-instance table
Row name	SnatPool

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv4AddressStart	Start IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/Ipv6SnatPools

This table contains SSL VPN Ipv6 SNAT pool configuration information.

XML structure

```

<SSLVPN>
  <Ipv6SnatPools>
    <Ipv6SnatPool>
      <Name></Name>
      <Ipv6AddressStart></Ipv6AddressStart>
      <Ipv6AddressEnd></Ipv6AddressEnd>
    </Ipv6SnatPool>
  </Ipv6SnatPools>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6SnatPools
Table type	Multi-instance table
Row name	Ipv6SnatPool
Restrictions	None

Support for row creation and deletion	Yes
---------------------------------------	-----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv6AddressStart	Start IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv6AddressEnd	End IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1.

SSLVPN/UrlResources

This table contains SSL VPN URL resource configuration information.

XML structure

```

<SSLVPN>
  <UrlResources>
    <UrlResource>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ListName></ListName>
    </UrlResource>
  </UrlResources>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlResources
Table type	Multi-instance table
Row name	UrlResource
Restrictions	None
Support for row creation and	Yes

deletion	
----------	--

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/SnatResources

This table contains SSL VPN SNAT resource configuration information.

XML structure

```

<SSLVPN>
  <SnatResources>
    <SnatResource>
      <ContextName></ContextName>
      <SnatPoolName></SnatPoolName>
    </SnatResource>
  </SnatResources>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatResources
Table type	Multi-instance table
Row name	SnatResource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SnatPoolName	SSL VPN SNAT pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UserControls

This table contains SSL VPN user control configuration information.

XML structure

```
<SSLVPN>
  <UserControls>
    <UserControl>
      <ContextName></ContextName>
      <MaxOnlineNum></MaxOnlineNum>
      <ForceLogout></ForceLogout>
      <SessionConnectionNum></SessionConnectionNum>
    </UserControl>
  </UserControls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UserControls
Table type	Multi-instance table
Row name	UserControl
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
MaxOnlineNum	Maximum online number of each SSL VPN user for the context	N/A	Unsigned integer. Value range: 0 to 1048575. Default: 32.	If the maxOnlineNum is 0, the context doesn't control the maximum online number of each SSL VPN user.
ForceLogout	Whether the force logout is enabled	N/A	Boolean: - true—Enabled. - false—Disabled (default).	N/A
SessionConnNum	Maximum number of connections for each session	N/A	Unsigned integer. Value range: 0, 10 to 1000. Default: 64.	If the MaxSessionConnNum is 0, the context doesn't control the maximum number of connections for each session.

SSLVPN/GlobalLog

This table contains SSL VPN global log configuration information.

XML structure

```
<SSLVPN>
  <GlobalLog>
    <GlobalLogEnable></GlobalLogEnable>
  </GlobalLog>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalLog
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLogEnable	Whether the global log is enabled	N/A	Boolean: • true—Enabled. • false—Disabled (default).	N/A

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SSLVPN

SSLVPN/Gateways

This table contains SSL VPN gateway information.

XML structure

```
<SSLVPN>
  <Gateways>
    <Gateway>
      <Name></Name>
      <AddressType></AddressType>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <VRF></VRF>
      <SSLServerPolicy></SSLServerPolicy>
      <HTTPRedirect></HTTPRedirect>
      <RedirectPort></RedirectPort>
      <Enable></Enable>
      <OperStatus></OperStatus>
      <DownReason></DownReason>
    </Gateway>
  </Gateways>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Gateways
Table type	Multi-instance table
Row name	Gateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			letters, digits, and underscores (_).	
AddressType	Whether the SSL VPN gateway address is an IPv6 address	N/A	Boolean: - false—IPv4. - true—IPv6.	N/A
Ipv4Address	IPv4 address of the SSL VPN gateway	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv6Address	IPv6 address of the SSL VPN gateway	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
PortNumber	Port number of the SSL VPN gateway	N/A	Unsigned integer. Value range: 443, 1025 to 65535.	N/A
VRF	Name of the VRF instance associated with the SSL VPN gateway	N/A	String. Length: 0 to 31 characters.	If the gateway is on the public network, the length of characters is 0.
SSLServerPolicy	Name of the SSL server policy used by the SSL VPN gateway	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
HTTPRedirect	Whether HTTP traffic is redirected	N/A	Boolean: - true—Redirected. - false—Not redirected.	N/A
RedirectPort	Port number of the redirected HTTP traffic	N/A	Unsigned integer. Value range: 80, 1025 to 65535.	N/A
Enable	Whether the SSL VPN gateway is enabled	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
OperStatus	SSL VPN gateway operation status	N/A	Enumeration: 1—up. 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN gateway is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN gateway operation status is down.

SSLVPN/Contexts

This table contains SSL VPN context information.

XML structure

<SSLVPN>

```

<Contexts>
  <Context>
    <Name></Name>
    <Gateway>
      <Name></Name>
      <AccessType></AccessType>
      <Domain></Domain>
      <VirtualHost></VirtualHost>
    </Gateway>
    <VRF></VRF>
    <MaxUsers></MaxUsers>
    <IdleTimeout></IdleTimeout>
    <AADomain></AADomain>
    <EMOServer>
      <Address></Address>
      <PortNumber></PortNumber>
    </EMOServer>
    <DefaultPolicyGroup></DefaultPolicyGroup>
    <Enable></Enable>
    <OperStatus></OperStatus>
    <DownReason></DownReason>
  </Context>
</Contexts>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts
Table type	Multi-instance table
Row name	Context
Restrictions	The Contexts table does not support multiple links. Tables ContextGateways and contexts_v2 are added to support multiple links, and new features are added in the these two tables. The Contexts table is included only for compatibility. No new features will be added to this table. Use new tables ContextGateways and contexts_v2 instead of this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Gateway	Associated gateway	Data structure	Members include: - Name. - AccessType. - Domain. - VirtualHost.	N/A
Name	Associated gateway name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: 1—domain. 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A
EMOServer	EMO server	Data structure	Members include: - Address. - PortNumber.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
OperStatus	SSL VPN context operation status	N/A	Enumeration: 1—up. 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN context is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN context operation status is down.

SSLVPN/Contexts_v2

This table contains SSL VPN context information.

XML structure

```

<SSLVPN>
  <Contexts_v2>
    <Context_v2>
      <Name></Name>
      <VRF></VRF>
      <MaxUsers></MaxUsers>
      <IdleTimeout></IdleTimeout>
      <TrafficThreshold></TrafficThreshold>
      <AAADomain></AAADomain>
      <EMOServer>
        <Address></Address>
        <PortNumber></PortNumber>
      </EMOServer>
      <MessageServer>

```

```

    <Address></Address>
    <PortNumber></PortNumber>
</MessageServer>
<SmsImcServer>
    <Address></Address>
    <PortNumber></PortNumber>
    <VRF></VRF>
</SmsImcServer>
<SmsImc></SmsImc>
<DefaultPolicyGroup></DefaultPolicyGroup>
<SSLClientPolicy></SSLClientPolicy>
<Enable></Enable>
<OperStatus></OperStatus>
<DownReason></DownReason>
</Context_v2>
</Contexts_v2>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Contexts_v2
Table type	Multi-instance table
Row name	Context_v2
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VRF	Name of the VRF instance associated with the SSL VPN context	N/A	String. Length: 0 to 31 characters.	If the context is on the public network, the length of characters is 0.
MaxUsers	Maximum number of SSL VPN user connections	N/A	Unsigned integer. Value range: 1 to 1048575.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 1 to 1440, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			minutes.	
TrafficThreshold	Set the minimum traffic to avoid idle-cut	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
AAADomain	SSL VPN context AAA domain	N/A	String, case insensitive. Length: 1 to 255 characters. The string cannot contain the following characters: / \ " : * ? < > @ The string cannot be any of the following values: d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.	N/A
EMOServer	EMO server	Data structure	Members include: - Address. - PortNumber.	N/A
Address	IPv4 address or host name of the EMO server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the EMO server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
MessageServer	Message server	Data structure	Members include: - Address. - PortNumber.	N/A
Address	IPv4 address or host name of the Message server	N/A	IPv4 address: String, dotted decimal notation. Host name: String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	IPv4 address example: 1.1.1.1. Host name example: www.example.com.
PortNumber	Port number of the Message server	N/A	Unsigned integer. Value range: 1025 to 65535.	N/A
SmsImcServer	Short Message Service of IMC server	Data structure	Members include: - Address. - PortNumber.	New feature, not compatible with the old table.
Address	IPv4 address or host name of the IMC server	N/A	String, dotted decimal notation.	New feature, not compatible with the old table. Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number of the IMC server	N/A	Unsigned integer. Value range: 1 to 65535.	New feature, not compatible with the old table.
VRF	Name of the VRF instance associated with the IMC server	N/A	String: Length: 0 to 31 characters.	If the IMC server is on the public network, the length of characters is 0.
SmsImc	Whether the SMS-IMC message authentication of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.	New feature, not compatible with the old table.
DefaultPolicy Group	Default policy group	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
SSLClientPolicy	Name of the SSL client policy used by the SSL VPN context	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old table.
Enable	Whether the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
OperStatus	SSL VPN context operation status	N/A	Enumeration: 1—up. 2—down.	N/A
DownReason	Reason why the operation status of the SSL VPN context is down	N/A	String. Length: 1 to 127 characters.	This column is available only when the SSL VPN context operation status is down.

SSLVPN/ContextGateways

This table contains information about the SSL VPN gateway associated with the context.

XML structure

```

<SSLVPN>
  <ContextGateways>
    <ContextGateway>
      <ContextName></ContextName>
      <GatewayName></GatewayName>
      <AccessType></AccessType>
      <Domain></Domain>
    </ContextGateway>
  </ContextGateways>
</SSLVPN>

```

```

    <VirtualHost></VirtualHost>
  </ContextGateway>
</ContextGateways>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextGateways
Table type	Multi-instance table
Row name	ContextGateway
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
GatewayName	Associated gateway name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AccessType	Gateway access method	N/A	Enumeration: 1—domain. 2—virtual host.	N/A
Domain	Domain specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), and underscores (_).	N/A
VirtualHost	Virtual host specified for the associated gateway	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A

SSLVPN/IpAcContexts

This table contains SSL VPN IP access information for contexts.

XML structure

```
<SSLVPN>
  <IpAcContexts>
    <IpAcContext>
      <ContextName></ContextName>
      <AcIfIndex></AcIfIndex>
      <KeepAlive></KeepAlive>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <DNSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </DNSServer>
      <WINSServer>
        <Primary></Primary>
        <Secondary></Secondary>
      </WINSServer>
      <ConnCloseLog></ConnCloseLog>
    </IpAcContext>
  </IpAcContexts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContexts
Table type	Multi-instance table
Row name	IpAcContext
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
AcIfIndex	Index of the referenced SSL VPN access	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	interface			
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds. Default: 30 seconds.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: - Name. - Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
DNSServer	DNS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
WINSServer	WINS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ConnCloseLog	Whether IP access connection close logging of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A

SSLVPN/UISettings

This table contains SSL VPN context UI information.

XML structure

```
<SSLVPN>
  <UISettings>
    <UISetting>
      <ContextName></ContextName>
      <VerifyCode></VerifyCode>
      <DPWD></DPWD>
      <DisplayLogo></DisplayLogo>
      <LogoFile></LogoFile>
      <LoginMsg>
        <English></English>
        <Chinese></Chinese>
      </LoginMsg>
      <Title>
        <English></English>
        <Chinese></Chinese>
      </Title>
      <CertificateAuthen></CertificateAuthen>
      <PasswordAuthen></PasswordAuthen>
      <AuthenUse></AuthenUse>
      <UserLog></UserLog>
      <ResourceLog></ResourceLog>
      <Filter></Filter>
      <Brief></Brief>
    </UISetting>
  </UISettings>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UISettings
Table type	Multi-instance table
Row name	UISetting
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

Column name	Column description	Column type	Data type and restrictions
VerifyCode	Whether the verify code is enabled	N/A	Boolean: - true—Enabled. - false—Disabled.
DPWD	Whether the dynamic password is enabled	N/A	Boolean: - true—Enabled. - false—Disabled.
DisplayLogo	Whether the logo is displayed	N/A	Boolean: - true—Displayed. - false—Not displayed.
LogoFile	Logo file path	N/A	String, case insensitive. Length: 1 to 255 characters.
LoginMsg	Web login message	Data structure	Members include: - English. - Chinese.
English	English login message string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese login message string	N/A	String. Length: 1 to 255 characters.
Title	Web title	Data structure	Members include: - English. - Chinese.
English	English title string	N/A	String. Length: 1 to 255 characters.
Chinese	Chinese title string	N/A	String. Length: 1 to 255 characters.
ResourceLog	Whether Resource logging of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
CertificateAuthen	Whether certificate authentication of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
UserLog	Whether user logging of the SSL VPN context	N/A	Boolean: true—Enabled.

Column name	Column description	Column type	Data type and restrictions
	is enabled.		false—Disabled.
PasswordAuthen	Whether password authentication of the SSL VPN context is enabled.	N/A	Boolean: - true—Enabled. - false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: 0—all. 1—any-one.

SSLVPN/PortForwardLists

This table contains SSL VPN port forwarding list information.

XML structure

```

<SSLVPN>
  <PortForwardLists>
    <PortForwardList>
      <ContextName></ContextName>
      <ListName></ListName>
    </PortForwardList>
  </PortForwardLists>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardLists
Table type	Multi-instance table
Row name	PortForwardList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and

Column name	Column description	Column type	Data type and restrictions
			underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/PortForwardItems

This table contains SSL VPN port forwarding entry information.

XML structure

```

<SSLVPN>
  <PortForwardItems>
    <PortForwardItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
    </PortForwardItem>
  </PortForwardItems>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItems
Table type	Multi-instance table
Row name	PortForwardItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and

Column name	Column description	Column type	Data type and restrictions
			underscores (_).
ListName	SSL VPN port forwarding list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
LocalPortNumber	Port number of the local server	Index	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local server	Index	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemoteServer	Domain name of the remote server	N/A	String, case insensitive. Length: 1 to 253 characters. The string can contain only letters, digits, hyphens (-), underscores (_), square brackets ([]), colon(:) and dots (.).
RemotePortNumber	Port number of the remote server	N/A	Unsigned integer. Value range: 1 to 65535.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.

SSLVPN/Ipv4AddressPools

This table contains SSL VPN IPv4 address pool information.

XML structure

```

<SSLVPN>
  <Ipv4AddressPools>
    <Ipv4AddressPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </Ipv4AddressPool>
  </Ipv4AddressPools>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN

Table name	Ipv4AddressPools
Table type	Multi-instance table
Row name	Ipv4AddressPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN IP address pool name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AddressStart	Start IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be larger than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/RouteLists

This table contains SSL VPN route list information.

XML structure

```

<SSLVPN>
  <RouteLists>
    <RouteList>
      <ContextName></ContextName>
      <ListName></ListName>
    </RouteList>
  </RouteLists>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteLists
Table type	Multi-instance table
Row name	RouteList

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/RouteItems

This table contains SSL VPN route item information.

XML structure

```

<SSLVPN>
  <RouteItems>
    <RouteItem>
      <ContextName></ContextName>
      <ListName></ListName>
      <RouteType></RouteType>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </RouteItem>
  </RouteItems>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	RouteItems
Table type	Multi-instance table
Row name	RouteItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 0—Exclude. 1—Include.	N/A
ListName	SSL VPN route list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4Address	Destination IPv4 address of the route	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	Index	Unsigned integer. Value range: 0 to 32.	N/A

SSLVPN/PolicyGroups

This table contains SSL VPN policy group basic information.

XML structure

```
<SSLVPN>
  <PolicyGroups>
    <PolicyGroup>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <IsDefault></IsDefault>
    </PolicyGroup>
  </PolicyGroups>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PolicyGroups
Table type	Multi-instance table

Row name	PolicyGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
IsDefault	Whether the SSL VPN policy group is the default group of the context	N/A	Boolean: - true—The SSL VPN policy group is the default group of the context. - false—The SSL VPN policy group is not the default group of the context.

SSLVPN/TcpAcPolicys

This table contains SSL VPN TCP access information for policy groups.

XML structure

```

<SSLVPN>
  <TcpAcPolicys>
    <TcpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <PortForwardName></PortForwardName>
      <URIACLName></URIACLName>
      <Ipv4AcNumber></Ipv4AcNumber>
      <Ipv6AcNumber></Ipv6AcNumber>
    </TcpAcPolicy>
  </TcpAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN

Table name	TcpAcPolicys
Table type	Multi-instance table
Row name	TcpAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
PortForwardName	SSL VPN port forwarding list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
Ipv4AcNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AcNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.

SSLVPN/IpAcPolicys

This table contains SSL VPN IP access information for policy groups.

XML structure

```

<SSLVPN>
  <IpAcPolicys>
    <IpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <KeepAlive></KeepAlive>
    </IpAcPolicy>
  </IpAcPolicys>
</SSLVPN>

```

```

<Ipv4AcINumber></Ipv4AcINumber>
<Ipv4AddressPool>
  <Name></Name>
  <Ipv4PrefixLength></Ipv4PrefixLength>
</Ipv4AddressPool>
<AccessRoute>
  <RouteType></RouteType>
  <RouteList></RouteList>
  <Ipv4Address></Ipv4Address>
  <Ipv4PrefixLength></Ipv4PrefixLength>
</AccessRoute>
<DNSServer>
  <Primary></Primary>
  <Secondary></Secondary>
</DNSServer>
<WINSServer>
  <Primary></Primary>
  <Secondary></Secondary>
</WINSServer>
</IpAcPolicy>
</IpAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table
Row name	IpAcPolicy
Restrictions	The IpacPolicys table does not support multiple user groups. The IpacPolicys_v2 table is added to support multiple user groups. The IpacPolicy table is included only for compatibility. No new features will be added to this table. Use the new table IpacPolicys_v2 instead of this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The value can contain Chinese characters. Invalid characters are \t \r \n ?.	
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in seconds.	N/A
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv4AddressPool	Referenced address pool	Data structure	Members include: - Name. - Ipv4PrefixLength.	N/A
Name	SSL VPN IP address pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4PrefixLength	SSL VPN IPv4 address pool prefix length	N/A	Unsigned integer. Value range: 1 to 30.	N/A
AccessRoute	Route issued to the client	Data structure	Members include: - RouteType. - RouteList. - Ipv4Address. - Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 1—Route list. 2—IPv4 address. 3—All.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	N/A
DNSServer	DNS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary DNS	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	server			
Secondary	IPv4 address of secondary DNS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
WINSServer	WINS server	Data structure	Members include: - Primary. - Secondary.	N/A
Primary	IPv4 address of primary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Secondary	IPv4 address of secondary WINS server	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/IpAcPolicys_v2

This table contains SSL VPN IP access information for policy groups.

XML structure

```

<SSLVPN>
  <IpAcPolicys_v2>
    <IpAcPolicy_v2>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AcINumber></Ipv4AcINumber>
      <Ipv6AcINumber></Ipv6AcINumber>
      <AccessRoute>
        <RouteType></RouteType>
        <RouteList></RouteList>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </AccessRoute>
      <ForceAll></ForceAll>
      <URIACLName></URIACLName>
    </IpAcPolicy_v2>
  </IpAcPolicys_v2>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcPolicys
Table type	Multi-instance table

Row name	IpAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4AcNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	New feature, not compatible with the old table.
Ipv6AcNumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	New feature, not compatible with the old table.
AccessRoute	Route issued to the client	Data structure	Members include: - RouteType. - RouteList. - Ipv4Address. - Ipv4PrefixLength.	N/A
RouteType	The way how the route is specified	N/A	Enumeration: 1—Route list. 2—IPv4 address.	N/A
ForceAll	Whether the force all is enabled	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
RouteList	SSL VPN route list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
Ipv4Address	Destination IPv4 address of the route	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	IPv4 address prefix length	N/A	Unsigned integer. Value range: 0 to 32.	N/A
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters.	New feature, not compatible with the old

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string can contain only letters, digits, and underscores (_).	table.

SSLVPN/Sessions

This table contains SSL VPN session information.

XML structure

```

<SSLVPN>
  <Sessions>
    <Session>
      <ContextName></ContextName>
      <UserName></UserName>
      <SessionID></SessionID>
      <UserAddressType></UserAddressType>
      <UserIpv4Address></UserIpv4Address>
      <UserIpv6Address></UserIpv6Address>
      <ConnNumber></ConnNumber>
      <PGroupName></PGroupName>
      <IdleTimeout></IdleTimeout>
      <CreatedTime></CreatedTime>
      <LastUsedTime></LastUsedTime>
      <TerminalInfo></TerminalInfo>
    </Session>
  </Sessions>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Sessions
Table type	Multi-instance table
Row name	Session
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context	Index	String, case insensitive.	N/A

Column name	Column description name	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	
UserName	Username	Index	String. Length: 1 to 63 characters.	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.
UserAddress Type	Whether the user address is an IPv6 address	N/A	Boolean: - false—IPv4. - true—IPv6.	N/A
UserIpv4Address	User IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
UserIpv6Address	User IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ConnNumber	Number of connections for the user session	N/A	Unsigned integer.	N/A
PGroupName	SSL VPN policy group name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
IdleTimeout	User connection idle timeout time	N/A	Unsigned integer. Value range: 60 to 86400, in seconds.	N/A
CreatedTime	Session creation time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
LastUsedTime	Session idle duration	N/A	Time. Format: HH:MM:SS.	N/A
TerminalInfo	TerminalInfo	N/A	String. Length: 1 to 20 characters.	N/A

SSLVPN/ContextStatistics

This table contains SSL VPN context statistics information.

XML structure

```
<SSLVPN>
  <ContextStatistics>
    <ContextStatistic>
```

```

    <ContextName></ContextName>
    <SessionNumber></SessionNumber>
  </ContextStatistic>
</ContextStatistics>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	ContextStatistics
Table type	Multi-instance table
Row name	ContextStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SessionNumber	Number of user sessions for the SSL VPN context	N/A	Unsigned integer.

SSLVPN/URIACLs

This table contains SSL VPN URI ACL information.

XML structure

```

<SSLVPN>
  <URIACLs>
    <URIACL>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
    </URIACL>
  </URIACLs >
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLs
Table type	Multi-instance table
Row name	URIACL
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLSName	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/URIACLItems

This table contains SSL VPN URI ACL entry information.

XML structure

```
<SSLVPN>
  <URIACLItems>
    <URIACLItem>
      <ContextName></ContextName>
      <URIACLName></URIACLName>
      <RuleNumber></RuleNumber>
      <Action></Action>
      <Pattern></Pattern>
    </URIACLItem>
  </URIACLItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	URIACLItems
Table type	Multi-instance table
Row name	URIACLItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
URIACLNam e	SSL VPN URI ACL name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
RuleNumber	Rule ID	Index	Unsigned integer. Value range: 0 to 65534.
Action	Action	N/A	Unsigned integer. Value range: 1 to 2. 1—Permit. 2—Deny.
Pattern	Rule pattern	N/A	String, case insensitive. Length: 1 to 256 characters.

SSLVPN/WebAcPolicys

This table contains SSL VPN Web access information for policy groups.

XML structure

```
<SSLVPN>
  <WebAcPolicys>
    <WebAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AcINumber></Ipv4AcINumber>
      <Ipv6AcINumber></Ipv6AcINumber>
      <URIACLName></URIACLName>
```

```

    </WebAcPolicy>
  </WebAcPolicys>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	WebAcPolicys
Table type	Multi-instance table
Row name	WebAcPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Ipv4AcINumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
Ipv6AcINumber	Referenced IPv6 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrILists

This table contains SSL VPN URL list information for policy groups.

XML structure

```

<SSLVPN>
  <UrILists>

```

```

<UrlList>
  <ContextName></ContextName>
  <ListName></ListName>
  <Heading></Heading>
</UrlList>
</UrlLists>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlLists
Table type	Multi-instance table
Row name	UrlList
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Heading	SSL VPN URL list heading	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UrlItems

This table contains SSL VPN URL entry information for policy groups.

XML structure

```

<SSLVPN>
  <UrlItems>
    <UrlItem>
      <ContextName></ContextName>

```

```

    <ListName></ListName>
    <UrlName></UrlName>
    <UrlValue></UrlValue>
    <URIACLName></URIACLName>
  </UrlItem>
</UrlItems>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItems
Table type	Multi-instance table
Row name	UrlItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
UrlName	URL name	Index	String, case insensitive. Length: 1 to 31 characters.
UrlValue	URL value	N/A	String, case insensitive. Length: 1 to 253 characters.
URIACLName	SSL VPN URI ACL name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/SnatPools

This table contains SSL VPN SNAT pool information for policy groups.

XML structure

```
<SSLVPN>
  <SnatPools>
    <SnatPool>
      <Name></Name>
      <Ipv4AddressStart></Ipv4AddressStart>
      <Ipv4AddressEnd></Ipv4AddressEnd>
    </SnatPool>
  </SnatPools>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatPools
Table type	Multi-instance table
Row name	SnatPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv4AddressStart	Start IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Ipv4AddressStart cannot be higher than Ipv4AddressEnd.
Ipv4AddressEnd	End IPv4 address of the SNAT pool	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

SSLVPN/Ipv6SnatPools

This table contains SSL VPN Ipv6 SNAT pool information for policy groups.

XML structure

```
<SSLVPN>
  <Ipv6SnatPools>
```

```

<Ipv6SnatPool>
  <Name></Name>
  <Ipv6AddressStart></Ipv6AddressStart>
  <Ipv6AddressEnd></Ipv6AddressEnd>
</Ipv6SnatPool>
</Ipv6SnatPools>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Ipv6SnatPools
Table type	Multi-instance table
Row name	Ipv6SnatPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	SSL VPN SNAT pool name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
Ipv6AddressStart	Start IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Ipv6AddressStart cannot be higher than Ipv6AddressEnd.
Ipv6AddressEnd	End IPv6 address of the SNAT pool	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

SSLVPN/UrlResources

This table contains SSL VPN URL resource information for policy groups.

XML structure

```

<SSLVPN>
  <UrlResources>
    <UrlResource>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ListName></ListName>
    </UrlResource>
  </UrlResources>
</SSLVPN>

```

```

        </UrlResource>
    </UrlResources>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlResources
Table type	Multi-instance table
Row name	UrlResource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
PGroupName	SSL VPN policy group name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ListName	SSL VPN URL list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/SnatResources

This table contains SSL VPN SNAT resource information for policy groups.

XML structure

```

<SSLVPN>
  <SnatResources>
    <SnatResource>
      <ContextName></ContextName>
      <SnatPoolName></SnatPoolName>
    </SnatResource>
  </SnatResources>

```

</SSLVPN>

Table description

Item	Description
Feature name	SSLVPN
Table name	SnatResources
Table type	Multi-instance table
Row name	SnatResource
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).
SnatPoolName	SSL VPN SNAT pool name	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).

SSLVPN/UserControls

This table contains SSL VPN user control information for policy groups.

XML structure

```
<SSLVPN>
  <UserControls>
    <UserControl>
      <ContextName></ContextName>
      <MaxOnlineNum></MaxOnlineNum>
      <ForceLogout></ForceLogout>
      <SessionConnectionNum></SessionConnectionNum>
    </UserControl>
  </UserControls>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UserControls
Table type	Multi-instance table
Row name	UserControl
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
MaxOnlineNum	Maximum online number of each SSL VPN user for the context	N/A	Unsigned integer. Value range: 0 to 1048575.	If the maxOnlineNum is 0, the context doesn't control the maximum online number of each SSL VPN user.
ForceLogout	Whether the force logout is enabled	N/A	Boolean: - true—Enabled. - false—Disabled .	N/A
SessionConnectionNum	Maximum number of connections for each session	N/A	Unsigned integer. Value range: 0, 10 to 1000.	If the SessionConnectionNum is 0, the context doesn't control the maximum number of connections for each session.

SSLVPN/Specification

This table contains information about the SSLVPN function specification.

XML structure

```
<SSLVPN>
  <Specifications>
    <ControllerType></ControllerType>
  </Specifications>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Specifications
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ControllerType	SSL VPN ControllerType	Column	Enumeration: 0—None. 1—M9K.	N/A

SSLVPN/GlobalLog

This table contains SSLVPN global log configuration information.

XML structure

```
<SSLVPN>
  <GlobalLog>
    <GlobalLogEnable></GlobalLogEnable>
  </GlobalLog>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalLog
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalLogEnable	Whether the global log is enabled	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A

SSLVPN/IpAcStatistics

This table contains SSLVPN IP access statistics information.

XML structure

```
<SSLVPN>
  <IpAcStatistics>
    <IpAcStatistic>
      <ContextName></ContextName>
      <UserName></UserName>
      <SessionID></SessionID>
      <UserAddressType></UserAddressType>
      <UserIpv4Address></UserIpv4Address>
      <UserIpv6Address></UserIpv6Address>
      <RecvReqPkts></RecvReqPkts>
      <SendReqPkts></SendReqPkts>
      <DropReqPkts></DropReqPkts>
      <RecvReplyPkts></RecvReplyPkts>
      <SendReplyPkts></SendReplyPkts>
      <DropReplyPkts></DropReplyPkts>
      <KeepalivePkts></KeepalivePkts>
      <KeepaliveReplyPkts></KeepaliveReplyPkts>
      <RecvUpdateCfgPkts></RecvUpdateCfgPkts>
      <SendUpdateCfgPkts></SendUpdateCfgPkts>
    </IpAcStatistic>
  </IpAcStatistics>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcStatistics
Table type	Multi-instance table
Row name	IpAcStatistic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextName	SSL VPN context name	Index	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
UserName	Username	Index	String. Length: 1 to 63 characters.	N/A
SessionID	User session ID	Index	Unsigned integer. Value range: 1 to 4294967295.	The ID is used only for sequencing. It is randomly assigned.
UserAddress Type	Type of user address	N/A	Enumeration: 1—IPv4. 2—IPv6.	N/A
UserIpv4Address	User IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
UserIpv6Address	User IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
RecvReqPkts	Number of received IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SendReqPkts	Number of sent IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DropReqPkts	Number of dropped IP access request packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RecvReplyPkts	Number of received IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SendReplyPkts	Number of sent IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
DropReplyPkts	Number of dropped IP access reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
KeepalivePkts	Number of keepalive	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets during a specific period			
KeepaliveReplyPkts	Number of keepalive reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RecvUpdateCfgPkts	Number of received configuration updating reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SendUpdateCfgPkts	Number of sent configuration updating reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

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StaticRoute/Ipv4StaticRoutePrefixFile

This table add IPv4 static route prefix in the file to the group.

XML structure

```
<StaticRoute>
  <Ipv4StaticRoutePrefixFile>
    <RoutePrefixFileEntry>
      <File></File>
      <Group></Group>
    </RoutePrefixFileEntry>
  </Ipv4StaticRoutePrefixFile>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRoutePrefixFile
Table type	Multi-instance table
Row name	RoutePrefixFileEntry
Restrictions	Prefix file must exist in the root directory of default storage medium. File Content include prefix like this: 1.1.1.1/32 10.1.1.0/24

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
File	filename. Example: cnc.txt	Index	String. Length: 1 to 255 characters.	N/A
Group	Group name.	index	String. Length: 1 to 31 characters.	N/A.

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Columns	6
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XML structure	8
Table description	9
Columns	9

StaticRoute

StaticRoute/Ipv4StaticRouteConfigurations

This table contains IPv4 static route configuration information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
    </RouteEntry>
  </Ipv4StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: - true—Permanent route. - false—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: - BackupIfIndex. - BackupNexthopIpv4Address.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIpv4Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

StaticRoute/Ipv4Group

This table contains IPv4 group configuration information.

XML structure

```
<StaticRoute>
```

```

    <Ipv4Group>
      <GroupEntry>
        <Group></Group>
      </GroupEntry>
    </Ipv4Group>
  </StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Group
Table type	Multi-instance table
Row name	GroupEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

StaticRoute/Ipv4GroupPrefix

This table contains IPv4 group prefix configuration information.

XML structure

```

<StaticRoute>
  <Ipv4GroupPrefix>
    <GroupPrefixEntry>
      <Group></Group>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GroupPrefixEntry>
  </Ipv4GroupPrefix>
</StaticRoute>

```


Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4GroupPrefix
Table type	Multi-instance table
Row name	Ipv4GroupPrefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A

StaticRoute/Ipv4StaticRouteGroup

This table contains IPv4 static route group configuration information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteGroup>
    <RouteGroupEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Group></Group>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
```

```

        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
    </BackupPathAttribute>
    <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
    </BfdAttribute>
    <TrackEntryID></TrackEntryID>
</RouteGroupEntry>
</Ipv4StaticRouteGroup>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteGroup
Table type	Multi-instance table
Row name	RouteGroupEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: true—Permanent route. false—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: - BackupIfIndex. - BackupNexthopIpv4Address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNextHopIPv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIPv4Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIPv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

StaticRoute/Ipv6StaticRouteConfigurations

This table contains IPv6 static route configuration information.

XML structure

```

<StaticRoute>
  <Ipv6StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <NextHopVrfIndex></NextHopVrfIndex>
      <NextHopIpv6Address></NextHopIpv6Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
    
```

```

<Description></Description>
<Permanent></Permanent>
<BfdAttribute>
  <BfdWorkMode></BfdWorkMode>
  <BfdSourceIpv6Address></BfdSourceIpv6Address>
</BfdAttribute>
</RouteEntry>
</Ipv6StaticRouteConfigurations>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv6Address	Destination IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv6Address	Nexthop IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: true—Permanent route. false—Not a Permanent route.	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIpv6Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIpv6Address	BFD source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.

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StaticRoute

StaticRoute/Ipv4StaticRouteConfigurations

This table contains IPv4 static route running information.

XML structure

```
<StaticRoute>
  <Ipv4StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
      </BfdAttribute>
      <TrackEntryID></TrackEntryID>
    </RouteEntry>
  </Ipv4StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: - true—Permanent route. - false—Not a permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: - BackupIfIndex. - BackupNexthopIpv4Address.	N/A
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNexthopIpv4Address	Backup nexthop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIpv4Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIpv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

StaticRoute/Ipv4Group

This table contains IPv4 group configuration information.

XML structure

```
<StaticRoute>
```

```

<Ipv4Group>
  <GroupEntry>
    <Group></Group>
  </GroupEntry>
</Ipv4Group>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4Group
Table type	Multi-instance table
Row name	GroupEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

StaticRoute/Ipv4GroupPrefix

This table contains IPv4 group prefix configuration information.

XML structure

```

<StaticRoute>
  <Ipv4GroupPrefix>
    <GroupPrefixEntry>
      <Group></Group>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GroupPrefixEntry>
  </Ipv4GroupPrefix>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute

Item	Description
Table name	Ipv4GroupPrefix
Table type	Multi-instance table
Row name	Ipv4GroupPrefix
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.
Ipv4Address	Destination IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
Ipv4PrefixLength	Length of the destination IPv4 address prefix.	Index	Unsigned integer. Value range: 0 to 32.	N/A

StaticRoute/Ipv4StaticRouteGroup

This table contains IPv4 static route group configuration information.

XML structure

```

<StaticRoute>
  <Ipv4StaticRouteGroup>
    <RouteGroupEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Group></Group>
      <NexthopVrfIndex></NexthopVrfIndex>
      <NexthopIpv4Address></NexthopIpv4Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
      <Permanent></Permanent>
      <BackupPathAttribute>
        <BackupIfIndex></BackupIfIndex>
        <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
      </BackupPathAttribute>
      <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
      </BfdAttribute>
    </RouteGroupEntry>
  </Ipv4StaticRouteGroup>
</StaticRoute>

```

```

        </BfdAttribute>
        <TrackEntryID></TrackEntryID>
    </RouteGroupEntry>
</Ipv4StaticRouteGroup>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteGroup
Table type	Multi-instance table
Row name	RouteGroupEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Group	Group name.	Index	String. Length: 1 to 31 characters.	After a group is created, it cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv4Address	Nexthop IPv4 address.	Index	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: true—Permanent route. false—Not a Permanent route.	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: - BackupIfIndex. - BackupNexthopIpv4Address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BackupIfIndex	Backup interface index.	N/A	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
BackupNextHopIPv4Address	Backup next-hop IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIPv4Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIPv4Address	BFD source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. 0.0.0.0 is an invalid value.
TrackEntryID	Track entry ID.	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

StaticRoute/Ipv6StaticRouteConfigurations

This table contains IPv6 static route running information.

XML structure

```

<StaticRoute>
  <Ipv6StaticRouteConfigurations>
    <RouteEntry>
      <DestVrfIndex></DestVrfIndex>
      <DestTopologyIndex></DestTopologyIndex>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
      <NextHopVrfIndex></NextHopVrfIndex>
      <NextHopIpv6Address></NextHopIpv6Address>
      <IfIndex></IfIndex>
      <Tag></Tag>
      <Preference></Preference>
      <Description></Description>
    
```



```

    <Permanent></Permanent>
    <BfdAttribute>
      <BfdWorkMode></BfdWorkMode>
      <BfdSourceIpv6Address></BfdSourceIpv6Address>
    </BfdAttribute>
  </RouteEntry>
</Ipv6StaticRouteConfigurations>
</StaticRoute>

```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv6StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DestVrfIndex	Destination VRF index.	Index	Unsigned integer.	Public network index is 0. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
DestTopologyIndex	Destination topology index.	Index	Unsigned integer.	Public network index is 0.
Ipv6Address	Destination IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
Ipv6PrefixLength	Length of the destination IPv6 address prefix.	Index	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NexthopVrfIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrfIndex should be set to the invalid VRF index 0xFFFF. Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
NexthopIpv6Address	Nexthop IPv6 address.	Index	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.
IfIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Tag	Route tag.	N/A	Unsigned integer. Value range: 1 to 4294967295.	Default value is 0.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: - true—Permanent route. - false—Not a Permanent route.	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: - BfdWorkMode. - BfdSourceIpv6Address.	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: 1—Control-packet mode. 2—Echo-packet mode.	N/A
BfdSourceIpv6Address	BFD source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. 0::0 is an invalid value.

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STP

STP/ClearAllIfStatistics

This table clear the statistics of STP on all interfaces.

XML structure

```
<STP>
  <ClearAllIfStatistics>
    <Clear></Clear>
  </ClearAllIfStatistics>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	ClearAllIfStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear the STP statistics on all interfaces.	N/A	This column must be empty.

STP/ClearInterfacesStatistics

This table clears the STP statistics information per interface.

XML structure

```
<STP>
  <ClearInterfacesStatistics>
    <InterfaceStatistics>
      <IfIndex></IfIndex>
      <Clear></Clear>
    </InterfaceStatistics>
  </ClearInterfacesStatistics>
</STP>
```

</STP>

Table description

Item	Description
Feature name	STP
Table name	ClearInterfacesStatistics
Table type	Multi-instance table
Row name	InterfaceStatistics
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
Clear	Clears statistics on the the specified interface.	N/A	This column must be empty.

STP/MigrationCheck

This table performs the MCheck operation to migrate all ports back from STP mode to current configuration mode.

XML structure

```
<STP>
  <MigrationCheck>
    <MCheck></MCheck>
  </MigrationCheck>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	MigrationCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MCheck	Force all interfaces to send BPDUs according to the protocol version while working in RSTP or MSTP mode.	N/A	This column must be empty

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STP

STP/Base

This table contains information about global STP functions.

XML structure

```
<STP>
  <Base>
    <Enable></Enable>
    <BPDUProtect></BPDUProtect>
    <Mode></Mode>
    <TcProtect></TcProtect>
    <TcThreshold></TcThreshold>
    <PathCostMethod></PathCostMethod>
    <HelloTime></HelloTime>
    <MaxHops></MaxHops>
    <MaxAge></MaxAge>
    <ForwardDelay></ForwardDelay >
    <TcSnooping></TcSnooping>
    <DigestSnooping></DigestSnooping>
  </Base>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global STP feature	N/A	Boolean: true—Enables STP. false—Disables STP.

Column name	Column description	Column type	Data type and restrictions
BPDUProtect	Global BPDU guard function	N/A	Boolean: true—Enables BPDU guard. false—Disables BPDU guard (default).
Mode	Working mode of the spanning tree protocol	N/A	Enumeration: 0—STP. 2—RSTP. 3—MSTP(default). 4—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: true—Enables TC guard (default). false—Disables TC guard.
TcThreshold	Maximum number of TC-BPDUs that can be processed within an interval	N/A	Unsigned integer. Value range:1-255. - Default: 6.
PathCostMethod	Path cost calculation method	N/A	Enumeration: 0—Legacy (default). 1—802.1D-1998. 2—802.1t.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range:1-10. - Default: 2.
MaxHops	Maximum hops of the MST region scope	N/A	Unsigned integer. Value range:1-40. - Default: 20.
MaxAge	Maximum of message aging timer	N/A	Unsigned integer. Value range:6-40. - Default: 20.
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range:4-30. - Default: 15.
TcSnooping	TC snooping function	N/A	Boolean: true—Enables TC snooping. false—Disables TC snooping(default).
DigestSnooping	Global MST digest snooping function	N/A	Boolean: true—Enables digest snooping. false—Disables digest snooping(default).

STP/Region

This table contains information about MST region configuration.

XML structure

```
<STP>
  <Region>
    <Name></Name>
    <RevisionLevel></RevisionLevel>
  </Region>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Region
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	MST region name	N/A	String. Length: 1 to 32 characters. Default: Hex-string of the bridge MAC address.	When a new region name is configured, the active region configuration will be changed.
RevisionLevel	Revision level of the MST region	N/A	Unsigned integer. Value range: 0-65535. Default: 0.	When a new revision level is configured, the active region configuration will be changed.

STP/StiVlans

This table contains information about the VLAN allocation of an MST region.

XML structure

```
<STP>
  <StiVlans>
    <StiVlan>
      <StiId></StiId>
    </StiVlan>
  </StiVlans>
</STP>
```

```

        <VlanList></VlanList>
    </StiVlan>
</StiVlans>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	StiVlans
Table type	Multi-instance table
Row name	StiVlan
Restrictions	All rows should be wrapped within a whole configuration message, following the region table above.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stild	Spanning tree index	Index	Unsigned integer. Value range: 1-4094.	
VlanList	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. - The string must not end with a comma or hyphen, or include any whitespace characters. Default: All VLANs are allocated to spanning tree instance 0(CIST).	- Each VLAN can only be allocated to one MST instance. - Each item can be an individual VLAN ID or a VLAN ID range. A hyphen (-) indicates a VLAN range from the start VLAN ID to end VLAN ID. For example: 1, 2, 3, 5-8, and 10-20. - VLAN ID range: 1-4094

STP/STIs

This table contains information about STP functions for a spanning tree.

XML structure

```

<STP>
  <STIs>

```

```

<STI>
  <StiId></StiId>
  <Priority></Priority>
  <RootType></RootType>
</STI>
</STIs>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	STIs
Table type	Multi-instance table
Row name	STI
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StiId	Spanning tree index	Index	Unsigned integer. • Value range: 0-4094.	
Priority	Bridge priority of the spanning tree	N/A	Unsigned integer. • Value range: 0-61440, in increments of 4096 (as in 0, 4096, 8192). • Default: 32768.	Configuration is not allowed when the root type is configured as primary root or secondary root, except for the following values combination: 1)priority is 0 when root type is 'primary'. 2)priority is 4096 when root type is 'secondary'.
RootType	Root type of the bridge	N/A	Enumeration: • 0 —Normal(default). • 1 —Secondary root. • 2 —Primary root.	

STP/Interfaces

This table contains information about interface-level STP functions.

XML structure

```
<STP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <EdgedPort></EdgedPort>
      <PointToPoint></PointToPoint>
      <RootProtect></RootProtect>
      <LoopProtect></LoopProtect>
      <RoleRestrict></RoleRestrict>
      <TcRestrict></TcRestrict>
      <DigestSnooping></DigestSnooping>
      <TransmitHoldCount></TransmitHoldCount>
    </Interface>
  </Interfaces>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.	In certain versions, this column supports interface name-to-index conversion. See the product xsd before use. See Table 1 for the format.
Enable	Interface STP feature	N/A	Boolean: true—Enables STP (default). false—Disables STP.	

Column name	Column description	Column type	Data type and restrictions	Remarks
EdgedPort	Interface edge port configuration	N/A	Boolean: true—Configures the interface as an edge port. It should not be configured while the loop protection is enabled. false—Configures the interface as a non-edge port (default).	
PointToPoint	Interface point-to-point configuration status	N/A	Enumeration: 1—Force-true. 2—Force-false. 3—Auto (default).	
RootProtect	Interface root guard function	N/A	Boolean: true—Enables root protection. It should not be configured while the loop protection is enabled. false—Disables root protection (default).	
LoopProtect	Interface loop guard function	N/A	Boolean: true—Enables loop protection. It should not be configured whether the root protection or edge-port is enabled. false—Disables loop protection (default).	
RoleRestrict	Interface role restriction function	N/A		Boolean: true—Enables role restriction. false—Disables role restriction (default).
TcRestrict	Interface TC restriction function	N/A		Boolean: true—Enables TC restriction. false—Disables TC restriction (default).

Column name	Column description	Column type	Data type and restrictions	Remarks
DigestSnooping	Interface MST digest snooping function	N/A		Boolean: true—Enables digest snooping. false—Disables digest snooping(default).
TransmitHoldCount	Interface transmit hold count, which is the maximum number of BPDUs that can be transmitted per seconds	N/A		Unsigned integer. Value range:1-255. Default: 10.

Table 1 Interface operation status

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet 0/0/2</IfIndex>
3	Multiple interface names	<IfIndex>GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Mixture of interface range name and interface names	<IfIndex>RangeName ,GigabitEthernet 0/0/2 to GigabitEthernet 0/0/3, GigabitEthernet 1/0/2 to GigabitEthernet 1/0/3, serial0/0/2</IfIndex>

STP/StiInterfaces

This table contains information about interface-level STP functions for a spanning tree.

XML structure

```

<STP>
  <StiInterfaces>
    <StiInterface>
      <StiId></StiId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
    </StiInterface>
  </StiInterfaces>
</STP>

```


Table description

Item	Description
Feature name	STP
Table name	StiInterfaces
Table type	Multi-instance table
Row name	StiInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Stild	Spanning tree index	Index	Unsigned integer. Value range: 0-4094.
IfIndex	Interface index	Index	Unsigned integer.
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. - Value range: 0-240, in increments of 16 (as in 0, 16, 32). - Default: 128.
PathCost	Spanning tree path cost of an interface	N/A	Unsigned integer. - Legacy value range: 0-200000. 802.1D-1998 value range: 0-65535. 802.1t value range: 0-200000000. - Default: 0. The actual cost will be automatically calculated according to the calculation method configured in STP Base table.

STP/Vlans

This table contains information about PVST functions for a VLAN.

XML structure

```
<STP>
  <VLANs>
    <VLAN>
      <VlanId></VlanId>
      <Enable></Enable>
      <Priority></Priority>
```

```

    <RootType></RootType>
  <BridgeTimes>
    <HelloTime></HelloTime>
    <MaxAge></MaxAge>
    <ForwardDelay></ForwardDelay>
  </BridgeTimes>
</VLAN>
</VLANs>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. • Value range: 1-4094.	The max VLAN ID of some product may be 4093.
Enable	PVST feature status	N/A	Boolean: • true —Enables PVST(default). • false —Disables PVST.	
Priority	Priority of the VLAN	N/A	Unsigned integer. • Value range: 0-61440, in increments of 4096 (as in 0, 4096, 8192). • Default: 32768.	Configuration is not allowed when the root type is configured as primary root or secondary root, except for the following values combination: 1)priority is 0 when root type is 'primary'. 2)priority is 4096 when root type is 'secondary'.
RootType	Root type of the VLAN	N/A	Enumeration: • 0 —Normal(default). • 1 —Secondary root. • 2 —Primary root.	

Column name	Column description	Column type	Data type and restrictions	Remarks
BridgeTimes	The bridge timers currently used	N/A	Struct, include members: - HelloTime. - MaxAge. - ForwardDelay.	
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range:1-10. Default: 2.	
MaxAge	Maximum of message age	N/A	Unsigned integer. Value range:6-40. Default: 20.	
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range:4-30. Default: 15.	

STP/VlanInterfaces

This table contains information about interface-level PVST functions for a VLAN.

XML structure

```

<STP>
  <VlanInterfaces>
    <VlanInterface>
      <VlanId></VlanId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
    </VlanInterface>
  </VlanInterfaces>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	VlanInterfaces
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
VlanId	VLAN index	Index	Unsigned integer. • Value range: 1-4094.
IfIndex	Interface index	Index	Unsigned integer.
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. • Value range: 0-240, in increments of 16 (as in 0, 16, 32). • Default: 128.
PathCost	Spanning tree path cost of an interface	N/A	Unsigned integer. • Legacy value range: 0-200000. • 802.1D-1998 value range: 0-65535. • 802.1t value range: 0-200000000. • Default: 0. The actual cost will be automatically calculated according to the calculation method configured in STP Base table.

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STP

STP/Base

This table contains global STP information.

XML structure

```
<STP>
  <Base>
    <Enable></Enable>
    <BPDUProtect></BPDUProtect>
    <Mode></Mode>
    <TcProtect></TcProtect>
    <TcThreshold></TcThreshold>
    <PathCostMethod></PathCostMethod>
    <HelloTime></HelloTime>
    <MaxHops></MaxHops>
    <MaxAge></MaxAge>
    <ForwardDelay></ForwardDelay>
    <TcSnooping></TcSnooping>
    <DigestSnooping></DigestSnooping>
  </Base>
</STP>
```

Table description

Item	Description
Feature name	STP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions
Enable	Global STP feature	N/A	Boolean: true—Enabled. false—Disabled.
BPDUProtect	Global BPDU guard function	N/A	Boolean: true—Enabled. false—Disabled.

Column name	Column description	Column type	Data type and restrictions
Mode	Working mode of the spanning tree protocol	N/A	Enumeration: 0—STP. 2—RSTP. 3—MSTP. 4—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: - true—Enabled. - false—Disabled.
TcThreshold	Maximum number of TC-BPDUs that can be processed within an interval	N/A	Unsigned integer. Value range: 1 to 255.
PathCostMethod	Path cost calculation method	N/A	Enumeration: 0—Legacy. 1—802.1D-1998. 2—802.1t.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.
MaxHops	Maximum hops of the MST region scope	N/A	Unsigned integer. Value range: 1 to 40.
MaxAge	Maximum of message aging timer	N/A	Unsigned integer. Value range: 6 to 40.
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.
TcSnooping	TC snooping function	N/A	Boolean: - true—Enables TC snooping. - false—Disables TC snooping.
DigestSnooping	Global MST digest snooping function	N/A	Boolean: - true—Enables digest snooping. - false—Disables digest snooping.

STP/Region

This table contains MST region configuration information.

XML structure

```
<STP>
  <Region>
    <Name></Name>
    <RevisionLevel></RevisionLevel>
    <FormatSelector></FormatSelector>
```

```

    <ConfigDigest></ConfigDigest>
  </Region>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	Region
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global configurations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	The active MST region name	N/A	String. Length: 1 to 32 characters.	N/A
RevisionLevel	The active revision level of the MST region	N/A	Unsigned integer Value range: 0 to 65535.	N/A
FormatSelector	The configuration Identifier Format selector	N/A	Enumeration: 0 —Indicates the format specified in 802.1Q.	N/A
ConfigDigest	Digest of VLAN-to-instance mappings for the MST region	N/A	Octet string. Length: 34 octets.	It's a hex-string with a prefix of 0x.

STP/StiVlans

This table contains information about the VLAN allocation of an MST region.

XML structure

```

<STP>
  <StiVlans>
    <StiVlan>
      <StiId></StiId>
      <VlanList></VlanList>
    </StiVlan>
  </StiVlans>
</STP>

```


Table description

Item	Description
Feature name	STP
Table name	StiVlans
Table type	Multi-instance table
Row name	StiVlan
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stild	Spanning tree index	Index	Unsigned integer. Value range: 0 to 4094.	N/A
VlanList	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. The string must not end with a comma or hyphen, or include any whitespace characters.	- Each VLAN can only be allocated to one MST instance. - Each item can be an individual VLAN ID or a VLAN ID range. A hyphen (-) indicates a VLAN range from the start VLAN ID to the end VLAN ID. For example: 1, 2, 3, 5-8, and 10-20. - VLAN ID range: 1 to 4094.

STP/STIs

This table contains information about STP functions for a spanning tree.

XML structure

```
<STP>
  <STIs>
    <STI>
      <StiId></StiId>
      <Priority></Priority>
      <RootType></RootType>
      <BridgeId></BridgeId>
      <TCs>
        <ReceiveTcOrTcn></ReceiveTcOrTcn>
        <LastTcTime></LastTcTime>
      </TCs>
    </STI>
  </STIs>
</STP>
```

```

<RootVector>
  <RootId></RootId>
  <ExtPathCost></ExtPathCost>
  <RegionRootId></RegionRootId>
  <IntPathCost></IntPathCost>
  <DesignateBridgeId></DesignateBridgeId>
  <DesignatePortId></DesignatePortId>
  <RootPort></RootPort>
</RootVector>
</STI>
</STIs>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	STIs
Table type	Multi-instance table
Row name	STI
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stild	Spanning tree index	Index	Unsigned integer. Value range: 0 to 4094.	If an instance is not in running state, and the values of the Priority and RootType columns are the default, the instance is not created, and data cannot be got.
Priority	Bridge priority of the spanning tree	N/A	Unsigned integer. Value range: 0 to 61440	N/A
RootType	Root type of the bridge	N/A	Enumeration: 0—Normal. 1—Secondary root. 2—Primary root.	N/A
Bridgeld	Spanning tree bridge Identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, and the 2-4 hex-character s indicates the system ID, the other hex-string indicates the bridge MAC address.

Column name	Column description	Column type	Data type and restrictions	Remarks
TCs	Topology change information	N/A	Struct, include members: ReceiveTcOrTcn. LastTcTime.	N/A
ReceiveTcOrTcn	Count of received TC or TCN	N/A	Unsigned integer. Length: 32 bits.	N/A
LastTcTime	Time of last received TC or detected TC, in 10ms	N/A	Unsigned integer. Length: 64 bits.	N/A
RootVector	Root priority vector	N/A	Struct, include members: RootBridgeId. ExtPathCost. DesignateBridgeId. IntPathCost. RootPort.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets. Not used by MSTIs.	As the remark of BridgeId above.
ExtPathCost	External path cost.	N/A	Unsigned integer. Length: 32 bits. Not used by MSTIs.	N/A
RegionRootId	Region root bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of BridgeId above.
IntPathCost	Internal path cost	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of BridgeId above.
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x, and the first 2 hex-characters indicate a port priority, and the other hex-string indicates a port number.
RootPort	Interface index of root port	N/A	Unsigned integer. Length: 32 bits.	N/A

STP/Interfaces

This table contains interface-level STP information.

XML structure

```

<STP>
  <Interfaces>
    <Interface>

```

```

<IfIndex></IfIndex>
<Enable></Enable>
<EdgedPort></EdgedPort>
<OperEdgedPort></OperEdgedPort>
<PointToPoint></PointToPoint>
<OperPointToPoint></OperPointToPoint>
<RootProtect></RootProtect>
<LoopProtect></LoopProtect>
<RoleRestrict></RoleRestrict>
<TcRestrict></TcRestrict>
<ProtectDown></ProtectDown>
<DigestSnooping></DigestSnooping>
<TransmitHoldCount></TransmitHoldCount>
<PortTimes>
  <HelloTime></HelloTime>
  <ForwardDelay></ForwardDelay>
  <MaxAge></MaxAge>
  <MessageAge></MessageAge>
</PortTimes>
<PortBpduCount>
  <TxMstBpdu></TxMstBpdu>
  <RxMstBpdu></RxMstBpdu>
  <TxRstBpdu></TxRstBpdu>
  <RxRstBpdu></RxRstBpdu>
  <TxConfigBpdu></TxConfigBpdu>
  <RxConfigBpdu></RxConfigBpdu>
  <TxTcn></TxTcn>
  <RxTcn></RxTcn>
  <RxInvalidBpdu></RxInvalidBpdu>
  <LastInvalidBpduTime></LastInvalidBpduTime>
</PortBpduCount>
</Interface>
</Interfaces>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits.
Enable	Interface STP feature	N/A	Boolean: true—Enabled. false—Disabled.
EdgedPort	Interface edge port configuration	N/A	Boolean: true—Edge port. false—Non-edge port.
OperEdgedPort	Interface operational edge port status	N/A	Boolean: true—Edge port. false—Non-edge port.
PointToPoint	Interface point-to-point configuration status	N/A	Enumeration: 1—Force-true. 2—Force-false. 3—Auto.
OperPointToPoint	Interface operational point-to-point status	N/A	Boolean: true—Point-to-Point. false—Not point-to-point.
RootProtect	Interface root guard function	N/A	Boolean: true—Enabled. false—Disabled.
LoopProtect	Interface loop guard function	N/A	Boolean: true—Enabled. false—Disabled.
RoleRestrict	Interface role restriction function	N/A	Boolean: true—Enabled. false—Disabled.
TcRestrict	Interface TC restriction function	N/A	Boolean: true—Enabled. false—Disabled.
ProtectDown	Interface protection shutdown status	N/A	Enumeration: 0—Not shutdown. 1—Edge Port down. 2—PVST BPDU down.
DigestSnooping	Interface MST digest snooping function	N/A	Boolean: true—Enabled. false—Disabled.
TransmitHoldCount	Interface transmission hold count	N/A	Unsigned integer. Value range: 1 to 255.
PortTimes	Interface protocol timers	N/A	Struct, include the following members: HelloTime. ForwardDelay.

Column name	Column description	Column type	Data type and restrictions
			• RemainHops. • MaxAge. • MessageAge.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.
ForwardDelay	Interface forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.
MaxAge	Interface maximum message age	N/A	Unsigned integer. Value range: 6 to 40.
MessageAge	Interface message age	N/A	Unsigned integer. Length: 32 bits.
PortBpduCount	Interface received or transmitted BPDU count per type	N/A	Struct, include the following members: • TxMstBpdu. • RxMstBpdu. • TxRstpBpdu. • RxRstpBpdu. • TxConfigBpdu. • RxConfigBpdu. • TxTcn. • RxTcn. • RxInvalidBpdu. • LastInvalidBpduTime.
TxMstBpdu	Count of transmitted MSTP BPDU	N/A	Unsigned integer. Length: 64 bits. Not used by PVST.
RxMstBpdu	Count of received MSTP BPDUs	N/A	Unsigned integer. Length: 64 bits. Not used by PVST.
TxRstBpdu	Count of transmitted RSTP BPDUs	N/A	Unsigned integer. Length: 64 bits.
RxRstBpdu	Count of received RSTP BPDUs	N/A	Unsigned integer. Length: 64 bits.
TxConfigBpdu	Count of transmitted 802.1D configuration BPDUs	N/A	Unsigned integer. Length: 64 bits.
RxConfigBpdu	Count of received 802.1D configuration BPDUs	N/A	Unsigned integer. Length: 64 bits.
TxTcn	Count of transmitted TCN messages	N/A	Unsigned integer. Length: 64 bits.
RxTcn	Count of received TCN messages	N/A	Unsigned integer. Length: 64 bits.
RxInvalidBpdu	Count of received invalid BPDUs	N/A	Unsigned integer. Length: 64 bits.

Column name	Column description	Column type	Data type and restrictions
LastInvalidBpduTime	Last time when an invalid BPDU was received, in seconds	N/A	Unsigned integer. Length: 64 bits.

STP/StiInterfaces

This table contains information about interface-level STP functions for a spanning tree.

XML structure

```

<STP>
  <StiInterfaces>
    <StiInterface>
      <StiId></StiId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
      <OperPathCost></OperPathCost>
      <Role></Role>
      <State></State>
      <ProtectBlock></ProtectBlock>
      <RapidTransit></RapidTransit>
      <RemainHops></RemainHops>
      <PortVector>
        <RootId></RootId>
        <ExtPathCost></ExtPathCost>
        <RegionRootId></RegionRootId>
        <IntPathCost></IntPathCost>
        <DesignateBridgeId></DesignateBridgeId>
        <DesignatePortId></DesignatePortId>
        <RcvdPortId></RcvdPortId>
      </PortVector>
    </StiInterface>
  </StiInterfaces>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	StiInterfaces
Table type	Multi-instance table
Row name	StiInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stild	Spanning tree index	Index	Unsigned integer. Value range: 0 to 4094.	If an instance is not in running state, and the values of the Priority and PathCost columns are the default, the instance is not created, and data cannot be got.
IfIndex	Interface index	Index	Unsigned integer.	N/A
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. Value range: 0 to 240	N/A
PathCost	Administrative spanning tree path cost of an interface	N/A	Unsigned integer. value range: 0 to 200000000.	N/A
OperPathCost	Operational spanning tree path cost of an interface	N/A	Unsigned integer. value range: 1 to 200000000.	N/A
Role	Port role of a spanning tree	N/A	Enumeration: • 0—Disabled port. • 1—Alternate port. • 2—Backup port. • 3—Root port. • 4—Designated port. • 5—Master port.	N/A
State	Port state of a spanning tree	N/A	Enumeration: • 1—Discarding. • 2—Learning. • 3—Forwarding.	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. • 0x01—Root protect. • 0x02—Loop protect. • 0x04—Loopback protect. • 0x08—Dispute protect. • 0x10—Port type inconsistent. • 0x20—PVID inconsistent.	N/A
RapidTransit	Forwarding state transition	N/A	Boolean: • true—Rapid transition. • false—Slow transition.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RemainHops	Remaining hops	N/A	Unsigned integer. Length: 32 bits.	N/A
PortVector	Port priority vector	N/A	Struct, include members: • RootBridgeId. • ExtPathCost. • DesignateBridgeId. • IntPathCost. • RootPort.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, and the 2-4 hex-character s indicates the system ID, the other hex-string indicates the bridge MAC address.
ExtPathCost	External path cost	N/A	Unsigned integer. Length: 32 bits.	N/A
RegionRootId	Region root bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of RootId above.
IntPathCost	Internal path cost	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of RootId above.
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x, and the first hex-character indicates a port priority of 4 bits, the other hex-string indicates a port number.
RcvdPortId	Interface identifier	N/A	Octet string. Length: 8 octets.	As the remark of DesignatePortId above.

STP/Vlans

This table contains information about PVST functions for a VLAN.

XML structure

```

<STP>
  <VLANs>
    <VLAN>
      <VlanId></VlanId>
      <Enable></Enable>
    </VLAN>
  </VLANs>
</STP>

```

```

<Priority></Priority>
<RootType></RootType>
<BridgeTimes>
  <HelloTime></HelloTime>
  <MaxAge></MaxAge>
  <ForwardDelay></ForwardDelay>
</BridgeTimes>
<BridgeId></BridgeId>
<TCs>
  <ReceiveTcOrTcn></ReceiveTcOrTcn>
  <LastTcTime></LastTcTime>
</TCs>
<RootVector>
  <RootBridgeId></RootBridgeId>
  <RootPathCost></RootPathCost>
  <DesignateBridgeId></DesignateBridgeId>
  <DesignatePortId></DesignatePortId>
  <RootPort></RootPort>
</RootVector>
</VLAN>
</VLANs>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	VLANs
Table type	Multi-instance table
Row name	VLAN
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. Value range: 1 to 4094.	If a VLAN is not in running state, and the values of the Priority and RootType columns are the default , the VLAN is not created, and data cannot be got.

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	PVST feature status	N/A	Boolean: true—Enables PVST. false—Disables PVST.	N/A
Priority	Priority of the VLAN	N/A	Unsigned integer. Length: 32 bits.	N/A
RootType	Root type of the VLAN	N/A	Enumeration: 0—Normal. 1—Secondary root. 2—Primary root.	N/A
BridgeTimes	Bridge timers per VLAN	N/A	Struct, include members: HelloTime. MaxAge. ForwardDelay.	N/A
HelloTime	Hello timer per VLAN in seconds	N/A	Unsigned integer. Value range: 1 to 10.	N/A
MaxAge	Maximum of message age per VLAN	N/A	Unsigned integer. Value range: 6 to 40.	N/A
ForwardDelay	Forwarding delay timer per VLAN in seconds	N/A	Unsigned integer. Value range: 4 to 30.	N/A
Bridgeld	Spanning tree bridge identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, the second through fourth hex-characters indicate the system ID, and the other hex-characters indicate the bridge MAC address.
TCs	Topology change information	N/A	Struct, include the following members: ReceiveTcOrTcn. LastTcTime.	N/A
ReceiveTcOrTcn	Count of received TC or TCN messages	N/A	Unsigned integer. Length: 32 bits.	N/A
LastTcTime	Time when the last TC message was received or detected, in 10 ms	N/A	Unsigned integer. Length: 64 bits.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RootVector	Root priority vector	N/A	Struct, include the following members: • RootBridgeId. • PathCost. • DesignateBridgeId. • RootPort.	N/A
RootBridgeId	Root bridge identifier	N/A	Octet string. Length: 18 octets.	Same as the remarks of the BridgeId column.
RootPathCost	Path cost to the root bridge	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge identifier	N/A	Octet string. Length: 18 octets.	Same as the remarks of the BridgeId column.
DesignatePortId	The transmitting port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x. The first two hex-characters indicate the port priority, and the other hex-characters indicate the port number.
RootPort	Interface index of the root port	N/A	Unsigned integer. Length: 32 bits.	N/A

STP/VlanInterfaces

This table contains information about interface-level PVST functions for a VLAN.

XML structure

```

<STP>
  <VlanInterfaces>
    <VlanInterface>
      <VlanId></VlanId>
      <IfIndex></IfIndex>
      <Priority></Priority>
      <PathCost></PathCost>
      <OperPathCost></OperPathCost>
      <Role></Role>
      <State></State>
      <ProtectBlock></ProtectBlock>
      <RapidTransit></RapidTransit>
      <PortTimes>
        <HelloTime></HelloTime>
        <ForwardDelay></ForwardDelay>
        <MaxAge></MaxAge>
        <MessageAge></MessageAge>
      </PortTimes>
    </VlanInterface>
  </VlanInterfaces>
</STP>

```

```

    <PortVector>
      <RootId></RootId>
      <RootPathCost></RootPathCost>
      <DesignateBridgeId></DesignateBridgeId>
      <DesignatePortId></DesignatePortId>
      <RcvdPortId></RcvdPortId>
    </PortVector>
  </VlanInterface>
</VlanInterfaces>
</STP>

```

Table description

Item	Description
Feature name	STP
Table name	VlanInterfaces
Table type	Multi-instance table
Row name	VlanInterface
Restrictions	This table supports only Layer 2 Ethernet interfaces and Layer 2 aggregate interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanId	VLAN index	Index	Unsigned integer. Value range: 1 to 4094.	If a VLAN is not in running state, and the values of the Priority and PathCost columns are the default, the VLAN is not created, and data cannot be got.
IfIndex	Interface index	Index	Unsigned integer. Length: 32 bits	N/A
Priority	Interface priority of a VLAN	N/A	Unsigned integer. Value range: 0 to 240	N/A
PathCost	Interface path cost of a VLAN	N/A	Unsigned integer. value range: 0 to 200000000.	N/A
OperPathCost	Interface path cost of a VLAN	N/A	Unsigned integer. value range: 1 to 200000000.	N/A
Role	Port role of a spanning tree	N/A	Enumeration: 0—Disabled port. 1—Alternate port. 2—Backup port. 3—Root port. 4—Designated port.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Port state of a spanning tree	N/A	Enumeration: 1—Discarding. 2—Learning. 3—Forwarding.	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. 0x01—Root protect. 0x02—Loop protect. 0x04—Loopback protect. 0x08—Dispute protect. 0x10—Port type inconsistent. 0x20—PVID inconsistent.	N/A
RapidTransit	Forwarding state transition	N/A	Boolean: - true—Rapid transition. - false—Slow transition.	N/A
PortTimes	Interface protocol timers	N/A	Struct, include members: - HelloTime. - ForwardDelay. - MaxAge. - MessageAge.	N/A
HelloTime	Hello timer in seconds	N/A	Unsigned integer. Value range: 1 to 10.	N/A
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. Value range: 4 to 30.	N/A
MaxAge	Maximum message age	N/A	Unsigned integer. Value range: 6 to 40.	N/A
MessageAge	Message age	N/A	Unsigned integer. Length: 32 bits.	N/A
PortVector	Port priority vector	N/A	Struct, include members: - RootBridgeId. - RootPathCost. - DesignateBridgeId.	N/A
RootId	Root bridge Identifier	N/A	Octet string. Length: 18 octets.	It's a hex-string with a prefix of 0x. The first hex-character indicates a bridge priority of 4 bits, the other hex-string indicates the bridge MAC address.
RootPathCost	Path cost to the root	N/A	Unsigned integer. Length: 32 bits.	N/A
DesignateBridgeId	Designated bridge Identifier	N/A	Octet string. Length: 18 octets.	As the remark of RootId above.

Column name	Column description	Column type	Data type and restrictions	Remarks
DesignatePortId	The transmitting Port identifier	N/A	Octet string. Length: 8 octets.	It's a hex-string with a prefix of 0x, and the first hex-character indicates a port priority of 4 bits, the other hex-string indicates a port number.
RcvdPortId	Interface identifier	N/A	Octet string. Length: 8 octets.	As the remark of DesignatePortId above.

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Super

Super/GlobalConfig

Super global configuration.

XML structure

```
<Super>
  <GlobalConfig>
    <ModeType></ModeType>
    <DefaultRole></DefaultRole>
  </GlobalConfig>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Authentication mode for temporary user role authorization	N/A	Enumeration: • 0—Local password authentication. • 1—Remote AAA authentication. • 2—Local-then-remote authentication mode. • 3—Remote-then-local authentication mode.	The default is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultRole	The default target user role for temporary user role authorization	N/A	A case-sensitive string of 1 to 63 characters. The user role must exist in the system.	The default is as follows: - If you log into a device that does not support MDC or Context, the default target user role is network-admin. - If you log in to the default MDC, the default target user role is network-admin. - If you log in to a non-default MDC, the default target user role is mdc-admin. - If you log in to the default Context, the default target user role is network-admin. - If you log in to a non-default Context, the default target user role is context-admin.

Super/Passwords

Passwords of roles.

XML structure

```

<Super>
  <Passwords>
    <Password>
      <RoleName></RoleName>
      <Password></Password>
    </Password>
  </Passwords>
</Super>

```

Table description

Item	Description
Feature name	Super
Table name	Passwords
Table type	Multi-instance table

Item	Description
Row name	Password
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RoleName	User role	Index	A case-sensitive string of 1 to 63 characters. The user role can be predefined or user-defined.	The column must be deployed together with the Password column and does not support a separate index.
Password	Password	N/A	The string is case sensitive. - In non-FIPS mode, the password must be a string of 1 to 63 characters in plain text. - In FIPS mode, the password must be a string of 15 to 63 characters. The string must contain four character types including digits, uppercase letters, lowercase letters, and special characters.	This column must appear.

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Super

Super/GlobalConfig

Super global configuration.

XML structure

```
<Super>
  <GlobalConfig>
    <ModeType></ModeType>
    <DefaultRole></DefaultRole>
  </GlobalConfig>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	GlobalConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	Authentication mode for temporary user role authorization	N/A	Enumeration: • 0—Local password authentication. • 1—Remote AAA authentication. • 2—Local-then-remote authentication mode. • 3—Remote-then-local authentication mode.	The default is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultRole	The default target user role for temporary user role authorization	N/A	A case-sensitive string of 1 to 63 characters. The user role must exist in the system.	The default is as follows: - If you log into a device that does not support MDC or Context, the target user role is network-admin. - If you log in to the default MDC, the default target user role is network-admin. - If you log in to a non-default MDC, the default target user role is mdc-admin. - If you log in to the default Context, the default target user role is network-admin. - If you log in to a non-default Context, the default target user role is context-admin.

Super/Passwords

Passwords of roles.

XML structure

```

<Super>
  <Passwords>
    <Password>
      <RoleName></RoleName>
    </Password>
  </Passwords>
</Super>

```

Table description

Item	Description
Feature name	Super
Table name	Passwords
Table type	Multi-instance table

Item	Description
Row name	Password
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	
RoleName	User role	Index	A case-sensitive string of 1 to 63 characters. The user role can be predefined or user-defined.	N/A

Super/PasswordLimit

As described in *Comware V7 Super NETCONF XML API Configuration Reference*, the value range of the Password column in the Super/Passwords table varies in FIPS mode and non-FIPS mode. To configure the Super/Passwords table, first obtain the value range of the Password column from the Super/PasswordLimit table.

XML structure

```
<Super>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</Super>
```

Table description

Item	Description
Feature name	Super
Table name	PasswordLimit
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	Minimum password length	N/A	Unsigned integer.	N/A
MaxLen	Maximum password length	N/A	Unsigned integer.	N/A
MinTypeNum	Minimum composition types	N/A	Unsigned integer.	The composition types are as follows: • Uppercase letters A to Z. • Lowercase letters a to z. • Digits 0 to 9. • Special characters.

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Syslog

Syslog/LogBuffer

This table describes the actions that can be performed to the log buffer.

XML structure

```
<Syslog>
  <LogBuffer>
    <Clear/>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clears logs in the log buffer.	N/A	This column must be empty.

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Columns	3
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XML structure	3
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Columns	4

Syslog

Syslog/LogBuffer

This table contains information about the log buffer.

XML structure

```
<Syslog>
  <LogBuffer>
    <State></State>
    <BufferSize></BufferSize>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of the log buffer	N/A	Enumeration: • enable (default). • disable.
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.

Syslog/LogHost

This table contains information about log hosts.

XML structure

```
<Syslog>
```

```

<LogHosts>
  <Host>
    <Address></Address>
    <VRF></VRF>
    <Port></Port>
    <Facility></Facility>
  </Host>
</LogHosts>
</Syslog>

```

Table description

Item	Description
Feature name	Syslog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	Up to four log hosts can be configured.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. HostName example: www.example.com.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Facility	Logging facility used by the log host	N/A	Enumeration: • 128—local0. • 136—local1. • 144—local2. • 152—local3. • 160—local4. • 168—local5. • 176—local6. • 184—local7.	N/A

Syslog/Configuration

This table contains information about syslog (the information center).

XML structure

```
<Syslog>
  <Configuration>
    <State></State>
    <DuplicateLogSuppression></DuplicateLogSuppression>
  </Configuration>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of syslog (the information center)	N/A	Enumeration: • enable (default). • disabe.
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: • enable. • disabe (default).

Syslog/OutputRules

This table contains information about syslog (the information center) output rules.

XML structure

```
<Syslog>
  <OutputRules>
    <OutputRule>
      <Destination></Destination>
    </OutputRule>
  </OutputRules>
</Syslog>
```

```

    <MouduleName></MouduleName>
    <Rule></Rule>
  </OutputRule>
</OutputRules>
</Syslog>

```

Table description

Item	Description
Feature name	Syslog
Table name	OutputRules
Table type	Multi-instance table
Row name	OutputRule
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Specifies syslog output destination	Index	Enumeration: • 1-Console • 2-Monitor terminal • 3-Log buffer • 4-Log host • 5-Log file	N/A
MouduleName	Specifies a module by its name.	Index	String. Length: 1 to 8 characters.	For instance to output FTP information, specify this argument as FTP. Setting default: Specifies all modules. If you do not set an output rule for a module, the module uses the default output rule or the output rule set by using the default keyword.

Column name	Column description	Column type	Data type and restrictions	Remarks
Rule	A log output rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination.	• N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • deny	Set the severity level above which the system suppresses logs to the specified module. Setting the level to errors, for example, allows logs with levels emergencies, alerts, critical and errors to display. alert: Action must be taken immediately (severity=1) critical : Critical conditions (severity=2) debugging: Debug-level messages (severity=7) emergency: System is unusable (severity=0) error: Error conditions (severity=3) informational: Informational messages (severity=6) notification: Normal but significant conditions (severity=5) warning: Warning conditions (severity=4) deny: Disable log output.

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Columns	6
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XML structure	6
Table description	6
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Syslog

Syslog/LogBuffer

This table contains log buffer information.

XML structure

```
<Syslog>
  <LogBuffer>
    <State></State>
    <BufferSize></BufferSize>
    <BufferSizeLimit></BufferSizeLimit>
    <LogsCount></LogsCount>
    <DroppedLogsCount></DroppedLogsCount>
    <OverwrittenLogsCount></OverwrittenLogsCount>
    <LogsCountPerSeverity>
      <Emergency></Emergency>
      <Alert></Alert>
      <Critical></Critical>
      <Error></Error>
      <Warning></Warning>
      <Notice></Notice>
      <Informational></Informational>
      <Debug></Debug>
    </LogsCountPerSeverity>
  </LogBuffer>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	LogBuffer
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the log buffer	N/A	Enumeration: enable. disable.	N/A
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
BufferSizeLimit	Maximum log buffer size supported by the device	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
LogsCount	Number of logs stored in the log buffer	N/A	Unsigned integer.	N/A
DroppedLogsCount	Number of dropped logs	N/A	Unsigned integer.	Number of logs dropped after the buffer size was decreased to a value that is smaller than the number of current logs.
OverwrittenLogsCount	Number of overwritten logs	N/A	Unsigned integer.	When the size of the log buffer exceeds the upper limit, new logs overwrites the earliest logs in the log buffer.
LogsCountPerSeverity	The number of each specified severity logs stored in the log buffer	Data structure	Members include: - Emergency - Alert - Critical - Error - Warning - Notice - Informational - Debug	N/A
Emergency	The number of emergency logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Alert	The number of alert logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Critical	The number of critical logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Error	The number of error logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Warning	The number of warning logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Notice	The number of notice logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Informational	The number of informational logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Debug	The number of debug logs stored in the log buffer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Syslog/LogHosts

This table contains the log host information.

XML structure

```

<Syslog>
  <LogHosts>
    <Host>
      <Address></Address>
      <VRF></VRF>
      <Port></Port>
      <Facility></Facility>
    </Host>
  </LogHosts>
</Syslog>

```

Table description

Item	Description
Feature name	Syslog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8. HostName example: www. example.com.
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Facility	Logging facility used by the log host	N/A	Enumeration: • 128—local0. • 136—local1. • 144—local2. • 152—local3. • 160—local4. • 168—local5. • 176—local6. • 184—local7.	N/A

Syslog/Logs

This table contains information about the logs in the log buffer.

XML structure

```

<Syslog>
  <Logs>
    <Log>
      <Index></Index>
      <Time></Time>
      <Group></Group>
      <Digest></Digest>
      <Severity></Severity>
      <Content></Content>
    </Log>
  </Logs>
</Syslog>

```

Table description

Item	Description
Feature name	Syslog
Table name	Logs
Table type	Multi-instance table
Row name	Log
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Index	Serial number of the log	N/A	Unsigned integer. Value range: 0 to 65535.
Time	Time when the log was generated	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
Group	Module that generated the log	N/A	String. Length: 1 to 8 characters.
Digest	Brief description of the log	N/A	String. Length: 1 to 32 characters.
Severity	Severity level of the log	N/A	Enumeration: • 0—Emergency. • 1—Alert. • 2—Critical. • 3—Error. • 4—Warning. • 5—Notification. • 6—Informational. • 7—Debugging.
Content	Content of the log	N/A	String. Length: 0 to 1023 characters.

Syslog/Configuration

This table contains information about syslog (the information center).

XML structure

```
<Syslog>
  <Configuration>
    <State></State>
    <DuplicateLogSuppression></DuplicateLogSuppression>
  </Configuration>
```

</Syslog>

Table description

Item	Description
Feature name	Syslog
Table name	Configuration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Status of syslog (the information center)	N/A	Enumeration: • enable. • disable.
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: • enable. • disable.

Syslog/OutputRules

This table contains information about syslog (the information center) output rules.

XML structure

```
<Syslog>
  <OutputRules>
    <OutputRule>
      <Destination></Destination>
      <Module Name></Module Name>
      <Rule></Rule>
    </OutputRule>
  </OutputRules>
</Syslog>
```

Table description

Item	Description
Feature name	Syslog
Table name	OutputRules
Table type	Multi-instance table

Item	Description
Row name	OutputRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Specifies syslog output destination	Index	Enumeration: • 1-Console • 2-Monitor terminal • 3-Log buffer • 4-Log host • 5-Log file	N/A
Module Name	Specifies a module by its name.	Index	String. Length: 1 to 8 characters.	If you do not set an output rule for a module, the module uses the default output rule or the output rule set by using the default keyword.
Rule	A log output rule specifies the source modules and severity level of logs that can be output to a destination. Logs matching the output rule are output to the destination.	• N/A	Enumeration string: • emergency • alert • critical • error • warning • notification • informational • debugging • deny	Set the severity level above which the system suppresses logs to the specified module. Setting the level to errors, for example, allows logs with levels emergencies, alerts, critical and errors to display. alert: Action must be taken immediately (severity=1) critical: Critical conditions (severity=2) debugging: Debug-level messages (severity=7) emergency: System is unusable (severity=0) error: Error conditions (severity=3) informational: Informational messages (severity=6) notification Normal but significant conditions (severity=5) warning: Warning conditions (severity=4) deny: Disable log output

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Tacacs

Tacacs/ClearAllStatistic

Clear all TACACS statistics.

XML structure

```
<Tacacs>
  <ClearAllStatistic>
    <Clear></Clear>
  </ClearAllStatistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	ClearAllStatistic
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear all TACACS statistics.	N/A	This column must be empty.

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XML structure	8
Table description	8
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Tacacs

Tacacs/GlobalNasIps

TACACS global NAS IP information table.

XML structure

```
<Tacacs>
  <GlobalNasIps>
    <GlobalNasIp>
      <VRF></VRF>
      <IpType></IpType>
      <IpAddress></IpAddress>
    </GlobalNasIp>
  </GlobalNasIps>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	The maximum number of global NAS IP addresses is 16.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	N/A
IpType	Source IP address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.0.0.1 IPv6 example: 2001:12::1:2

Tacacs/Schemes

TACACS scheme table.

XML structure

```
<Tacacs>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <RealAcctInterval></RealAcctInterval>
      <TimeOut></TimeOut>
      <QuietTime></QuietTime>
      <UserNameFormat></UserNameFormat>
      <BytesUnit></BytesUnit>
      <PacketsUnit></PacketsUnit>
      <NasIpv4Address></NasIpv4Address>
      <NasIpv6Address></NasIpv6Address>
      <AuthenKey></AuthenKey>
      <AuthorKey></AuthorKey>
      <AcctKey></AcctKey>
      <VRF></VRF>
    </Scheme>
  </Schemes>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The maximum number of TACACS schemes is 16.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 60, in minutes.	Default: 12 minutes. The value of 0 indicates that the device does not send realtime accounting information for online users to TACACS servers.
TimeOut	TACACS server response timeout timer	N/A	Unsigned integer. Value range: 1 to 300, in seconds.	Default: 5 seconds
QuietTime	Quiet timer for the servers specified in the TACACS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes
UserNameFormat	Format of user names to be sent to TACACS servers	N/A	Enumeration: 0—keep-original. 1—with-domain. 2—without-domain.	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte.	Default: 0
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: 0—one-packet. 1—kilo-packet. 2—mega-packet. 3—giga-packet.	Default: 0
NasIpv4Address	Source IPv4 IP address for outgoing TACACS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	Source IPv6 IP address for outgoing TACACS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
AuthenKey	Shared key for secure TACACS authentication communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorKey	Shared key for secure HWTACACS authorization communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
AcctKey	Shared key for secure TACACS accounting communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
VRF	VRF name	N/A	String. Length: 1 to 31 characters.	Default: Public network

Tacacs/AuthServers

TACACS authentication server table.

XML structure

```

<Tacacs>
  <AuthServers>
    <AuthServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AuthServer>
  </AuthServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers

Item	Description
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can configure one primary authentication server and a maximum of 16 secondary authentication servers for backup in each TACACS scheme. To change the primary authentication server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authentication server. 1—Secondary authentication server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authentication server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
Key	Shared key for secure TACACS authentication communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
SingleConn	Whether to use the same TCP connection for authentication packet exchange for all users	N/A	Boolean: - true - false	Default: false

Tacacs/AuthorServers

TACACS authorization server table.

XML structure

```

<Tacacs>
  <AuthorServers>
    <AuthorServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AuthorServer>
  </AuthorServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer

Item	Description
Restrictions	You can configure one primary authorization server and a maximum of 16 secondary authorization servers for backup in each TACACS scheme. To change the primary authorization server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authorization server. 1—Secondary authorization server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authorization server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authorization server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
Key	Shared key for secure HWTACACS authentication communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SingleConn	Whether to use the same TCP connection for authorization packet exchange for all users	N/A	Boolean: - true - false	Default: false

Tacacs/AcctServers

TACACS accounting server table.

XML structure

```

<Tacacs>
  <AcctServers>
    <AcctServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <Key></Key>
      <SingleConn></SingleConn>
    </AcctServer>
  </AcctServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can configure one primary accounting server and a maximum of 16 backup accounting servers for backup in each TACACS. To change the primary accounting server, delete the existing primary server, and then configure a new primary server.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary accounting server. 1—Secondary accounting server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS accounting server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS accounting server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
Key	Shared key for secure TACACS accounting communication	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters. In FIPS mode, the shared key is a string of 15 to 255 characters that must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
SingleConn	Whether to use the same TCP connection for accounting packet exchange for all users	N/A	Boolean: - true - false	Default: false

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Tacacs

Tacacs/GlobalNasIps

TACACS global NAS IP information table.

XML structure

```
<Tacacs>
  <GlobalNasIps>
    <GlobalNasIp>
      <VRF></VRF>
      <IpType></IpType>
      <IpAddress></IpAddress>
    </GlobalNasIp>
  </GlobalNasIps>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	GlobalNasIps
Table type	Multi-instance table
Row name	GlobalNasIp
Restrictions	The maximum number of global NAS IP addresses is 16.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	N/A
IpType	Source IP address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	Source IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	IPv4 example: 1.0.0.1 IPv6 example: 2001:12::1:2

Tacacs/Schemes

TACACS scheme table.

XML structure

```
<Tacacs>
  <Schemes>
    <Scheme>
      <SchemeName></SchemeName>
      <RealAcctInterval></RealAcctInterval>
      <TimeOut></TimeOut>
      <QuietTime></QuietTime>
      <UserNameFormat></UserNameFormat>
      <BytesUnit></BytesUnit>
      <PacketsUnit></PacketsUnit>
      <NasIpv4Address></NasIpv4Address>
      <NasIpv6Address></NasIpv6Address>
      <VRF></VRF>
    </Scheme>
  </Schemes>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	Schemes
Table type	Multi-instance table
Row name	Scheme
Restrictions	The maximum number of TACACS schemes is 16.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
RealAcctInterval	Realtime accounting interval	N/A	Unsigned integer. Value range: 0 to 60, in minutes.	Default: 12 minutes. The value of 0 indicates that the device does not send realtime accounting information for online users to TACACS servers.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeOut	TACACS server response timeout timer	N/A	Unsigned integer. Value range: 1 to 300, in seconds.	Default: 5 seconds
QuietTime	Quiet timer for the servers specified in the TACACS scheme	N/A	Unsigned integer. Value range: 1 to 255, in minutes.	Default: 5 minutes
UserNameFormat	Format of user names to be sent to TACACS servers	N/A	Enumeration: 0—keep-original. 1—with-domain. 2—without-domain.	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte.	Default: 0
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: 0—one-packet. 1—kilo-packet. 2—mega-packet. 3—giga-packet.	Default: 0
NasIpv4Address	Source IPv4 IP address for outgoing TACACS packets	N/A	String in dotted decimal notation.	For example, 10.1.1.1.
NasIpv6Address	Source IPv6 IP address for outgoing TACACS packets	N/A	Hexadecimal string, colon-separated.	For example, 2001:12::22:33.
VRF	VRF name	N/A	String. Length: 1 to 31 characters.	Default: Public network

Tacacs/AuthServers

TACACS authentication server table

XML structure

```

<Tacacs>
  <AuthServers>
    <AuthServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
    </AuthServer>
  </AuthServers>
</Tacacs>

```



```

    <IpType></IpType>
    <Host></Host>
    <Port></Port>
    <SingleConn></SingleConn>
    <State></State>
  </AuthServer>
</AuthServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	You can configure one primary authentication server and a maximum of 16 secondary authentication servers for backup in each TACACS scheme. To change the primary authentication server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authentication server. 1—Secondary authentication server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authentication server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authentication server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
SingleConn	Whether to use the same TCP connection for authentication packet exchange for all users	N/A	Boolean: - true - false	Default: false
State	Status of the TACACS authentication server	N/A	Enumeration: 0—Active. 1—Block.	Default: 0

Tacacs/AuthorServers

TACACS authorization server table.

XML structure

```

<Tacacs>
  <AuthorServers>
    <AuthorServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <SingleConn></SingleConn>
      <State></State>
    </AuthorServer>
  </AuthorServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer
Restrictions	You can configure one primary authorization server and a maximum of 16 secondary authorization servers for backup in each TACACS scheme. To change the primary authorization server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary authorization server.. 1—Secondary authorization server.	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authorization server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authorization server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
SingleConn	Whether to use the same TCP connection for authorization packet exchange for all users	N/A	Boolean: - true - false	Default: false
State	Status of the TACACS authorization server	N/A	Enumeration: 0—Active. 1—Block.	Default: 0

Tacacs/AcctServers

TACACS accounting server table.

XML structure

```

<Tacacs>
  <AcctServers>
    <AcctServer>
      <SchemeName></SchemeName>
      <Priority></Priority>
      <VRF></VRF>
      <IpType></IpType>
      <Host></Host>
      <Port></Port>
      <SingleConn></SingleConn>
      <State></State>
    </AcctServer>
  </AcctServers>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	You can configure one primary accounting server and a maximum of 16 backup accounting servers for backup in each TACACS. To change the primary accounting server, delete the existing primary server, and then configure a new primary server.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SchemeName	TACACS scheme name	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Priority	Priority	Index	Enumeration: 0—Primary TACACS accounting server. 1—Secondary TACACS accounting server..	N/A
VRF	VRF name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS accounting server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS accounting server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
SingleConn	Whether to use the same TCP connection for accounting packet exchange for all users	N/A	Boolean: - true - false	Default: false
State	Status of the TACACS accounting server	N/A	Enumeration: 0—Active. 1—Block.	Default: 0

Tacacs/Statistic/AuthServers

TACACS authentication server statistics table.

XML structure

```
<Tacacs>
  <Statistic>
    <AuthServers>
      <AuthServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <ReqLogin></ReqLogin>
        <ReqChangePass></ReqChangePass>
        <ReqSendPass></ReqSendPass>
        <ReqSendAuth></ReqSendAuth>
        <Continue></Continue>
        <ContinueAbort></ContinueAbort>
        <Response></Response>
        <RespPass></RespPass>
        <RespFail></RespFail>
        <RespGetData></RespGetData>
        <RespGetUser></RespGetUser>
        <RespGetPass></RespGetPass>
        <RespRestart></RespRestart>
        <RespErr></RespErr>
        <RespFollow></RespFollow>
        <RespMalformed></RespMalformed>
        <RespUnknownType></RespUnknownType>
        <RespDropped></RespDropped>
      </AuthServer>
    </AuthServers>
  </Statistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthServers
Table type	Multi-instance table
Row name	AuthServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authentication server address	Index	Enumeration: • 0—IPv4. • 1—IPv6. • 2—FQDN.	N/A
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
LastRoundTripTime	Time interval between the most recent response and request packets exchanged with the TACACS authentication server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequests	Number requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqLogin	Number of login requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqChangePasswords	Number of password change requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReqSendPass	Number of requests containing plaintext passwords	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqSendAuth	Number of requests containing ciphertext passwords	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Continue	Number of Continue packets	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ContinueAbort	Number of Continue-Abort packets	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespPass	Number of Access-Accept messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFail	Number of Access-Reject messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetData	Number of responses for acquiring data	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetUser	Number of responses for acquiring user names	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespGetPass	Number of responses for acquiring passwords	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespRestart	Number of responses that require reauthentication	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of failure responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/Statistic/AuthorServers

TACACS authorization server statistics table,

XML structure

```
<Tacacs>
  <Statistic>
    <AuthorServers>
      <AuthorServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <Response></Response>
        <RespPassAdd></RespPassAdd>
        <RespPassRepl></RespPassRepl>
        <RespFail></RespFail>
        <RespErr></RespErr>
        <RespFollow></RespFollow>
        <RespMalformed></RespMalformed>
        <RespUnknownType></RespUnknownType>
        <RespDropped></RespDropped>
      </AuthorServer>
    </AuthorServers>
  </Statistic>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	AuthorServers
Table type	Multi-instance table
Row name	AuthorServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS authorization server address	Index	Enumeration: • 0—IPv4. • 1—IPv6. • 2—FQDN.	N/A
Host	TACACS authorization server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
LastRoundTripTime	Time interval between the most recent response and request packets exchanged with the TACACS authentication server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequest	Number of requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespPassAdd	Number of received responses that include more authorization attributes than the requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RespPassRepl	Number of received responses with authorization attributes that cannot replace all the authorization attributes in the requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFail	Number of failure responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of error responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/Statistic/AcctServers

TACACS accounting server statistics table.

XML structure

```

<Tacacs>
  <Statistic>
    <AcctServers>
      <AcctServer>
        <VRF></VRF>
        <IpType></IpType>
        <Host></Host>
        <Port></Port>
        <LastRoundTripTime></LastRoundTripTime>
        <PendingRequest></PendingRequest>
        <Timeout></Timeout>
        <Request></Request>
        <ReqStart></ReqStart>
        <ReqStop></ReqStop>
        <ReqUpdate></ReqUpdate>
        <ReqStartAndUpdate></ReqStartAndUpdate>
        <ReqMore></ReqMore>
        <Response></Response>
      </AcctServer>
    </AcctServers>
  </Statistic>
</Tacacs>

```

```

    <RespSuccess></RespSuccess>
    <RespErr></RespErr>
    <RespFollow></RespFollow>
    <RespMalformed></RespMalformed>
    <RespUnknownType></RespUnknownType>
    <RespDropped></RespDropped>
  </AcctServer>
</AcctServers>
</Statistic>
</Tacacs>

```

Table description

Item	Description
Feature name	Tacacs
Table name	AcctServers
Table type	Multi-instance table
Row name	AcctServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF name	Index	String. Length: 1 to 31 characters.	N/A
IpType	Type of the TACACS accounting server address	Index	Enumeration: 0—IPv4. 1—IPv6. 2—FQDN.	N/A
Host	TACACS accounting server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	When the IpType value is 0, this column represents the IPv4 address of the server or the IPv4 address mapped to the server FQDN. When the IpType value is 1, this column represents the IPv6 address of the server or the IPv6 address mapped to the server FQDN.
Port	Service port number of the TACACS accounting server.	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
LastRoundTripTime	Time interval between the most recent response and request packets exchanged with the TACACS accounting server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequest	Number of requests waiting for responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Timeout	Number of requests for which no responses are received due to timeout	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Request	Number of requests sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqStart	Number of account-start packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqStop	Number of accounting-stop packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqUpdate	Number of accounting-update packets sent	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ReqStartAndUpdate	Number of accounting-start packets containing assigned values	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Response	Number of received responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespSuccess	Number of success responses received	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespErr	Number of error responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespFollow	Number of Follow messages	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespMalformed	Number of invalid responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespUnknownType	Number of unknown types of responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RespDropped	Number of discarded responses	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Tacacs/PasswordLimit

Requirements to meet when you configure passwords for the TACACS module.

XML structure

```
<Tacacs>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</Tacacs>
```

Table description

Item	Description
Feature name	Tacacs
Table name	PasswordLimit
Table type	Single-instance table
Row name	None
Restrictions	- The configuration takes effect on the following items: - Tacacs/Schemes table <AuthenKey></AuthenKey> <AuthorKey></AuthorKey> <AcctKey></AcctKey> - Tacacs/AuthServers table <Key></Key> - Tacacs/AuthorServers table <Key></Key> - Tacacs/AcctServers table <Key></Key> - Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	The minimum password length	N/A	Unsigned integer.	N/A
MaxLen	The maximum password length	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MinTypeNum	Minimum number of character types that the password must contain	N/A	Unsigned integer.	Character types include digit, uppercase letter, lowercase letter, and special character. For example, if the value is set to 3, the password string must include three or more character types.

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TE

TE/Tunnels

This table contains TE Tunnel information.

XML structure

```
<TE>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <SignalingType></SignalingType>
      <SRLspName></SRLspName>
      <BackupSRLspName></BackupSRLspName>
      <ServiceClass></ServiceClass>
      <IGPShortcut></IGPShortcut>
      <Statistic></Statistic>
      <ServiceClassStatistic></ServiceClassStatistic>
    </Tunnel>
  </Tunnels>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	Applicable to only MPLS TE tunnel interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
SignalingType	The signaling protocol for an MPLS TE tunnel interface.	N/A	Enumeration: 0—STATIC. 1—RSVP-TE(default).	N/A
SRLspName	The static SRLSP name for	N/A	String. Length: 1 to 15 characters.	Case-sensitive

Column name	Column description	Column type	Data type and restrictions	Remarks
	an MPLS TE tunnel interface.			
BackupSRSPName	The static Backup SRLSP name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 15 characters.	Case-sensitive
ServiceClass	The service class for an MPLS TE tunnel interface.	N/A	Unsigned integer. The value range varies by device model.	N/A
IGPS shortcut	IGP that uses the MPLS TE tunnel in its enhanced SPF calculation.	N/A	Enumeration: 0—ALL 1—OSPF 2—ISIS	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A
ServiceClass Statistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

TE/TunnelBundles

This table contains TE Bundle Signaling information.

XML structure

```

<TE>
  <TunnelBundles>
    <TunnelBundle>
      <BundleID></BundleID>
      <ProtType></ProtType>
      <DstAddr></DstAddr>
    </TunnelBundle>
  </TunnelBundles>
</TE>

```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundles
Table type	Multi-instance table
Row name	TunnelBundle

Restrictions	NA
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
ProtType	Tunnel protection switching mode.	N/A	Enumeration: 0—balance(default). 1—onetoone protection. 2—oneplusone protection.	N/A
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

TE/TunnelBundleMembers

This table contains TE Bundle Signaling information.

XML structure

```

<TE>
  <TunnelBundleMembers>
    <TunnelBundleMember>
      <BundleID></BundleID>
      <TunnelID></TunnelID>
      <Membership></Membership>
      <LoadShare></LoadShare>
    </TunnelBundleMember>
  </TunnelBundleMembers>
</TE>

```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleMembers
Table type	Multi-instance table
Row name	TunnelBundleMember
Restrictions	The member must be MPLS TE tunnel interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
Membership	The Protection Type of Member interface	N/A	Enumeration: • 0—primary member interface(default). • 1—backup member interface.	N/A
LoadShare	The weight for a member tunnel interface.	N/A	Unsigned integer. The range is 1 to 65535.	N/A

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XML structure	4
Table description	4
Columns	5

TE

TE/Tunnels

This table contains TE Tunnel information.

XML structure

```
<TE>
  <Tunnels>
    <Tunnel>
      <TunnelID></TunnelID>
      <SignalingType></SignalingType>
      <SRLspName></SRLspName>
      <BackupSRLspName></BackupSRLspName>
      <ServiceClass></ServiceClass>
      <IGPShortcut></IGPShortcut>
      <Statistic></Statistic>
      <ServiceClassStatistic></ServiceClassStatistic>
    </Tunnel>
  </Tunnels>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	Applicable to only MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
SignalingType	The signaling protocol for an MPLS TE tunnel interface.	N/A	Enumeration: 0—STATIC. 1—RSVP-TE(default).	N/A
SRLspName	The static SRLSP name for an MPLS TE	N/A	String. Length: 1 to 15 characters.	Case-sensitive

Column name	Column description	Column type	Data type and restrictions	Remarks
	tunnel interface.			
BackupSRLSPName	The static Backup SRLSP name for an MPLS TE tunnel interface.	N/A	String. Length: 1 to 15 characters.	Case-sensitive
ServiceClass	The service class for an MPLS TE tunnel interface.	N/A	Unsigned integer. The value range varies by device model.	N/A
IGPShortcut	IGP that uses the MPLS TE tunnel in its enhanced SPF calculation.	N/A	Enumeration: 0—ALL 1—OSPF 2—ISIS	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: true—Enabled. false—Disabled.	N/A
ServiceClassStatistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: true—Enabled. false—Disabled.	N/A

TE/TunnelBundleCapabilities

This table contains TE Bundle Signaling information.

XML structure

```

<TE>
  <TunnelBundleCapabilities>
    <MaxBndNum></MaxBndNum>
    <MaxMembNum></MaxMembNum>
    <LoadBalancing></LoadBalancing>
    <ProtectionOnetoone></ProtectionOnetoone>
    <ProtectionOneplusone></ProtectionOneplusone>
  </TunnelBundleCapabilities>
</TE>

```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleCapabilities
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxBndNum	Support for the maximum Bundle interface.	Index	Unsigned integer.	N/A
MaxMembNum	Support for the maximum tunnel interface can be add to the same Tunnel-bundle interface.	N/A	Unsigned integer.	N/A
LoadBalancing	Support for load sharing mode.	N/A	Boolean: - true—Supported. - false—Not supported	N/A
ProtectionOnetoone	Support for onetoone protection mode	N/A	Boolean: - true—Supported. - false—Not supported	N/A
ProtectionOnplusone	Support for oneplusone protection mode	N/A	Boolean: - true—Supported. - false—Not supported	N/A

TE/TunnelBundles

This table contains TE Bundle Signaling information.

XML structure

```

<TE>
  <TunnelBundles>
    <TunnelBundle>
      <BundleID></BundleID>
      <ProtType></ProtType>
      <DstAddr></DstAddr>
    </TunnelBundle>
  </TunnelBundles>
</TE>

```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundles
Table type	Multi-instance table
Row name	TunnelBundle
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
ProtType	Tunnel protection switching mode.	N/A	Enumeration: • 0—balance. • 1—onetoone protection. • 2—oneplusone protection.	N/A
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.

TE/TunnelBundleMembers

This table contains TE Bundle Signaling information.

XML structure

```
<TE>
  <TunnelBundleMembers>
    <TunnelBundleMember>
      <BundleID></BundleID>
      <TunnelID></TunnelID>
      <Membership></Membership>
      <LoadShare></LoadShare>
    </TunnelBundleMember>
  </TunnelBundleMembers>
</TE>
```

Table description

Item	Description
Feature name	TE
Table name	TunnelBundleMembers
Table type	Multi-instance table
Row name	TunnelBundleMember
Restrictions	The member must be MPLS TE tunnel interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BundleID	Tunnel-bundle ID.	Index	Unsigned integer.	N/A
TunnelID	Tunnel ID.	N/A	Unsigned integer.	N/A
Membership	The Protection Type of Member interface	N/A	Enumeration: • 0—primary member interface. • 1—backup member interface.	N/A
LoadShare	The weight for a member tunnel interface.	N/A	Unsigned integer. The range is 1 to 65535.	N/A

Contents

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TELNET

TELNET/Server

This table contains information about global TELNET Server functions.

XML structure

```
<TELNET>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4Port></Ipv4Port>
    <Ipv6Port></Ipv6Port>
  </Server>
</TELNET>
```

Table description

Item	Description
Feature name	TELNET
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global TELNET Server functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Global TELNET Server feature	N/A	EnableState: - enable Enable TELNET Server - disable Disable TELNET Server(default)
Ipv4DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48

Column name	Column description	Column type	Data type and restrictions
Ipv6DSCP	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the TELNET clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the TELNET clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv4Port	Set the IPv4 Server Port value	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default value: 23
Ipv6Port	Set the IPv6 Server Port value	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default value: 23.

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XML structure	1
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Columns	2

TELNET

TELNET/Capabilities

This table contains the capabilities information of the TELNET.

XML structure

```
<TELNET>
  <Capabilities>
    <TelnetServerSupport></TelnetServerSupport>
  </Capabilities>
</TELNET>
```

Table description

Item	Description
Feature name	TELNET
Table name	Capabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TelnetServerSupport	Whether The TELNET Server capability is supported.	N/A	Boolean: - true - false

TELNET/Server

This table contains global TELNET Server information.

XML structure

```
<TELNET>
  <Server>
    <State></State>
    <Ipv4DSCP></Ipv4DSCP>
    <Ipv6DSCP></Ipv6DSCP>
    <Ipv4ACLNum></Ipv4ACLNum>
  </Server>
</TELNET>
```

```

    <Ipv6ACLNum></Ipv6ACLNum>
    <Ipv4Port></Ipv4Port>
    <Ipv6Port></Ipv6Port>
  </Server>
</TELNET>

```

Table description

Item	Description
Feature name	TELNET
Table name	Server
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global TELNET Server functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
State	Global TELNET Server feature	N/A	EnableState: - enable Enable TELNET Server - disable Disable TELNET Server(default)
Ipv4DSCP	Set the IPv4 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48
Ipv6DSCP	Set the IPv6 Differentiated Services Codepoint (DSCP) value	N/A	Unsigned integer. Value range: 0 to 63. Default value:48.
Ipv4ACLNum	Specify an IPv4 ACL used to control the TELNET clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv6ACLNum	Specify an IPv6 ACL used to control the TELNET clients' access	N/A	Unsigned integer. Value range: 2000 to 4999.
Ipv4Port	Set the IPv4 Server Port value	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default value: 23
Ipv6Port	Set the IPv6 Server Port value	N/A	Unsigned integer. Value range: 23, 1025 to 65535. Default value: 23.

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XML structure	3
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Columns	4

TimeRange

TimeRange/TimeRanges

This table contains time range information.

XML structure

```
<TimeRange>
  <TimeRanges>
    <Range>
      <Name></Name>
    </Range>
  </TimeRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	TimeRanges
Table type	Multi-instance table
Row name	Range
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	The time range name cannot be all .

TimeRange/AbsRanges

This table contains information about absolute time range statements.

XML structure

```
<TimeRange>
```

```

<AbsRanges>
  <AbsRange>
    <TimeRangeName></TimeRangeName>
    <ID></ID>
    <Start>
      <StartTime></StartTime>
      <StartDate></StartDate>
    </Start>
    <End>
      <EndTime></EndTime>
      <EndDate></EndDate>
    </End>
  </AbsRange>
</AbsRanges>
</TimeRange>

```

Table description

Item	Description
Feature name	TimeRange
Table name	AbsRanges
Table type	Multi-instance table
Row name	AbsRange
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	You must create a time range before you create, merge, or replace statements for it.
ID	Absolute statement ID	Index	Unsigned integer. Value range: 1 to 12.	If you set this column to 0, the system automatically assigns a new statement ID. This statement ID is the smallest available integer in the range of 1 to 12.

Column name	Column description	Column type	Data type and restrictions	Remarks
Start	Start time and date of an absolute statement	Data structure	Members include: - StartTime. - StartDate.	- You cannot specify a start time and date when you remove or delete a statement. - You must specify a start time and date when you create, merge, or replace a statement.
StartTime	Start time of an absolute statement	N/A	Format: hh:mm. Value range: 00:00 to 23:59.	N/A
StartDate	Start date of an absolute statement	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
End	End time and date of an absolute statement	Data structure	Members include: - EndTime. - EndDate.	- You cannot specify an end time and date when you remove or delete a statement. - You must specify an end time and date when you create, merge, or replace a statement.
EndTime	End time of an absolute statement	N/A	Format: hh:mm. Value range: 00:00 to 24:00.	N/A
EndDate	End date of an absolute statement	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

TimeRange/PerRanges

This table contains information about periodic time range statements.

XML structure

```

<TimeRange>
  <PerRanges>
    <PerRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <DayOfWeek>
        <Sun></Sun>
        <Mon></Mon>
        <Tue></Tue>

```

```

        <Wed></Wed>
        <Thu></Thu>
        <Fri></Fri>
        <Sat></Sat>
    </DayOfWeek>
</PerRange>
</PerRanges>
</TimeRange>

```

Table description

Item	Description
Feature name	TimeRange
Table name	PerRanges
Table type	Multi-instance table
Row name	PerRange
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remark
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	You must create a time range before you create, merge, or replace statements for it.
ID	Periodic statement ID	Index	Unsigned integer. Value range: 1 to 32.	If you set this column to 0, the system automatically assigns a new statement ID. This statement ID is the smallest available integer in the range of 1 to 32.
StartTime	Start time of a periodic statement	N/A	Format: hh:mm. Value range: 00:00 to 23:59.	- You cannot specify a start time when you remove or delete a statement. - You must specify a start time when you create, merge, or replace a statement. - Start time must be smaller than end time.

Column name	Column description	Column type	Data type and restrictions	Remark
EndTime	End time of a periodic statement	N/A	Format: hh:mm. Value range: 00:00 to 24:00.	- You cannot specify an end time when you remove or delete a statement. - You must specify an end time when you create, merge, or replace a statement. - End time must be greater than start time.
DayOfWeek	Day of the week	Data structure	Members include: - Sun. - Mon. - Tue. - Wed. - Thu. - Fri. - Sat.	- You cannot specify any day of the week when you remove or delete a statement. - You must specify at least one day of the week when you create, merge, or replace a statement.
Sun	Sunday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Mon	Monday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Tue	Tuesday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Wed	Wednesday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Thu	Thursday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Fri	Friday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A
Sat	Saturday	N/A	Boolean: true—Specified. false—Not specified (default).	N/A

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XML structure	2
Table description	2
Columns	2
TimeRange/PerRanges	3
XML structure	3
Table description	3
Columns	4

TimeRange

TimeRange/TimeRanges

This table contains time range information.

XML structure

```
<TimeRange>
  <TimeRanges>
    <Range>
      <Name></Name>
      <Status></Status>
    </Range>
  </TimeRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	TimeRanges
Table type	Multi-instance table
Row name	Range
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
Status	Time range status	N/A	Enumeration: 1—Active. 2—Inactive.

TimeRange/AbsRanges

This table contains information about absolute time range statements.

XML structure

```
<TimeRange>
  <AbsRanges>
    <AbsRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <Start>
        <StartTime></StartTime>
        <StartDate></StartDate>
      </Start>
      <End>
        <EndTime></EndTime>
        <EndDate></EndDate>
      </End>
    </AbsRange>
  </AbsRanges>
</TimeRange>
```

Table description

Item	Description
Feature name	TimeRange
Table name	AbsRanges
Table type	Multi-instance table
Row name	AbsRange
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.	N/A
ID	Absolute statement ID	Index	Unsigned integer. Value range: 1 to 12.	N/A
Start	Start time and date of an absolute statement	Data structure	Members include: - StartTime. - StartDate.	The two members must both be specified.
StartTime	Start time of an absolute statement	N/A	Format: hh:mm. Value range: 00:00 to 23:59.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDate	Start date of an absolute statement.	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
End	End time and date of an absolute statement	Data structure	Members include: - EndTime. - EndDate.	The two members must both be specified.
EndTime	End time of an absolute statement	N/A	Format: hh:mm. Value range: 00:00 to 24:00.	N/A
EndDate	End date of an absolute statement	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

TimeRange/PerRanges

This table contains information about periodic time range statements.

XML structure

```

<TimeRange>
  <PerRanges>
    <PerRange>
      <TimeRangeName></TimeRangeName>
      <ID></ID>
      <StartTime></StartTime>
      <EndTime></EndTime>
      <DayOfWeek>
        <Sun></Sun>
        <Mon></Mon>
        <Tue></Tue>
        <Wed></Wed>
        <Thu></Thu>
        <Fri></Fri>
        <Sat></Sat>
      </DayOfWeek>
    </PerRange>
  </PerRanges>
</TimeRange>

```

Table description

Item	Description
Feature name	TimeRange

Item	Description
Table name	PerRanges
Table type	Multi-instance table
Row name	PerRange
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TimeRangeName	Time range name	Index	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
ID	Periodic statement ID	Index	Unsigned integer. Value range: 1 to 32.
StartTime	Start time of a periodic statement	N/A	Format: hh:mm. Value range: 00:00 to 23:59.
EndTime	End time of a periodic statement	N/A	Format: hh:mm. Value range: 00:00 to 24:00.
DayOfWeek	Day of the week	Data structure	Members include: • Sun. • Mon. • Tue. • Wed. • Thu. • Fri. • Sat.
Sun	Sunday	N/A	Boolean: • true—Specified. • false—Not specified (default).
Mon	Monday	N/A	Boolean: • true—Specified. • false—Not specified (default).
Tue	Tuesday	N/A	Boolean: • true—Specified. • false—Not specified (default).
Wed	Wednesday	N/A	Boolean: • true—Specified. • false—Not specified (default).
Thu	Thursday	N/A	Boolean: • true—Specified. • false—Not specified (default).

Column name	Column description	Column type	Data type and restrictions
Fri	Friday	N/A	Boolean: • true—Specified. • false—Not specified (default).
Sat	Saturday	N/A	Boolean: • true—Specified. • false—Not specified (default).

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Tracert

Tracert/IPv4Tracert

This table is used to test the IPv4 message pass through router from source to destination, and to check the network connection is available.

XML structure

```
<Tracert>
  <IPv4Tracert>
    <TracertTest>
      <Host></Host>
      <VRF></VRF>
    </TracertTest>
  </IPv4Tracert>
</Tracert>
```

Responded XML structure

```
<Tracert>
  <IPv4Tracert>
    <TracertTest>
      <Host></Host>
      <PayloadLength></PayloadLength>
      <Hops></Hops>
      <TracertReply>
        <Sequence></Sequence>
        <PassthroughRouter></PassthroughRouter>
        <ReplyTime></ReplyTime>
      </TracertReply>
      <TestResult></TestResult>
    </TracertTest>
  </IPv4Tracert>
</Tracert>
```

Table description

Item	Description
Feature name	Tracert
Table name	IPv4Tracert
Table type	Multi-instance table
Row name	TracertTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address or hostname of remote system.	Index	String. Length: 1 to 253 characters.	Example: 1.1.1.1 or hostname
VRF	Vrf name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the pulic network.

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv4 address of remote system.	N/A	String,IPv4 address string.	Example: 1.1.1.1
Hops	The maximum hop limit.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PayloadLength	The payload length.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TracertReply	The reply of tracert.	Data structure	Members include: - Sequence. - PassthroughRouter. - ReplyTime.	N/A
Sequence	The Sequence of reply.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Passthrough Router	The packet pass through router	N/A	String,IPv4 address string.	Example: 1.1.1.1.
ReplyTime	The time of reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If value is 4294967295, it means that time out.
TestResult	The test result.	N/A	Boolean: - true—Test success. - false—Test fail.	The timeout to wait for total reply is about 25 seconds.

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Tracert6

Tracert6/IPv6Tracert

This table is used to test the IPv6 message pass through router from source to destination, and to check the network connection is available.

XML structure

```
<Tracert6>
  <IPv6Tracert>
    <TracertTest>
      <Host></Host>
      <VRF></VRF>
    </TracertTest>
  </IPv6Tracert>
</Tracert6>
```

Responded XML structure

```
<Tracert6>
  <IPv6Tracert>
    <TracertTest>
      <Host></Host>
      <PayloadLength></PayloadLength>
      <Hops></Hops>
      <TracertReply>
        <Sequence></Sequence>
        <PassthroughRouter></PassthroughRouter>
        <ReplyTime></ReplyTime>
      </TracertReply>
      <TestResult></TestResult>
    </TracertTest>
  </IPv6Tracert>
</Tracert6>
```

Table description

Item	Description
Feature name	Tracert6
Table name	IPv6Tracert
Table type	Multi-instance table
Row name	TracertTest
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address or hostname of remote system.	Index	String. Length: 1 to 253 characters.	Example: 1::1 or hostname
VRF	Vrf name.	Index	String. Length: 0 to 31 characters.	An empty string indicates the public network.

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Host	IPv6 address of remote system.	N/A	String,IPv6 address string.	Example: 1::1.
Hops	The maximum hop limit.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
PayloadLength	The payload length.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
TracertReply	The reply of tracert.	Data structure	Members include: - Sequence. - PassthroughRouter. - ReplyTime.	N/A
Sequence	The Sequence of reply.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A
Passthrough Router	The packet pass through router	N/A	String,IPv6 address string.	Example: 1::1.
ReplyTime	The time of reply.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: microsecond.	If value is 4294967295, it means that time out.
TestResult	The test result.	N/A	Boolean: - true—Test success. - false—Test fail.	The timeout to wait for total reply is about 25 seconds.

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TRACK

TRACK/TRACKEntries

This table contains information about track entries.

XML structure

```
<TRACK>
  <TrackEntries>
    <TrackEntry>
      <TrackIndex></TrackIndex>
      <TypeInterface>
        <IfIndex></IfIndex>
        <IfStateType></IfStateType>
      </TypeInterface>
      <TypeBfd>
        <EchoIfIndex></EchoIfIndex>
        <RemoteIp></RemoteIp>
        <LocalIp></LocalIp>
      </TypeBfd>
      <TypeCfd>
        <ServiceInstance></ServiceInstance>
        <MepId></MepId>
      </TypeCfd>
      <TypeRoute>
        <VRF></VRF>
        <IpAddress></IpAddress>
        <MaskLength></MaskLength>
      </TypeRoute>
      <TypeNqa>
        <AdminName></AdminName>
        <OperationTag></OperationTag>
        <ReactionNum></ReactionNum>
      </TypeNqa>
      <TypeList>
        <ListType></ListType>
      </TypeList>
    </TrackEntry>
  </TrackEntries>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackEntries
Table type	Multi-instance table
Row name	TrackEntry
Restrictions	Only one tracked object type can be specified for a track entry. You cannot modify the settings of the track entry after creating it in this table. If you need to do this, you must delete the track entry and then create it again.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TypeInterface	Associates the track entry with an interface.	Data structure	Members include: - IfIndex. - IfStateType.	All the members must be specified.
IfIndex	Interface index.	N/A	Unsigned integer.	N/A
IfStateType	Type of the interface state.	N/A	Enumeration: 1—Link state. 2—Physical state. 3—IPv4 protocol state. 4—IPv6 protocol state.	N/A
TypeBfd	Associates the track entry with a BFD session.	Data structure	Members include: - EchoIfIndex. - Remotelp. - Locallp.	All the members must be specified.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	N/A	Unsigned integer.	N/A
Remotelp	Specifies the destination IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
Locallp	Specifies the source IP	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of the BFD echo packets.			
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: - ServiceInstance. - Mepld.	All the members must be specified.
ServiceInstance	Specifies a service instance ID.	N/A	Unsigned integer. Value range: 1 to 32767.	N/A
Mepld	Specifies a MEP ID.	N/A	Unsigned integer. Value range: 1 to 8191.	N/A
TypeRoute	Associates the track entry with a route entry.	Data structure	Members include: - VRF. - IpAddress. - MaskLength.	The IpAddress member and MaskLength member must be specified.
VRF	VRF instance name.	N/A	String. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the route entry.	N/A	IPv4: String, dotted decimal notation.	N/A
MaskLength	Mask length of the route entry.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
TypeNqa	Associates the track entry with an NQA operation.	Data structure	Members include: - AdminName. - OperationTag. - ReactionNum.	All the members must be specified.
AdminName	Administrator name of the NQA operation.	N/A	String. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag of the NQA operation.	N/A	String. Length: 1 to 32 characters.	N/A
ReactionNum	Reaction entry associated with the NQA entry.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
TypeList	Associates the track entry with a tracked list.	Data structure	Members include: ListType.	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: 1—Boolean AND list. 2—Boolean OR list.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—Percentage threshold list. 4—Weight threshold list.	

TRACK/TRACKObjectList

This table contains information about objects in tracked lists.

XML structure

```

<TRACK>
  <ObjectList>
    <Object>
      <TrackIndex></TrackIndex>
      <ObjectIndex></ObjectIndex>
      <ObjectSign></ObjectSign>
      <ObjectWeight></ObjectWeight>
    </Object>
  </ObjectList>
</TRACK>

```

Table description

Item	Description
Feature name	TRACK
Table name	ObjectList
Table type	Multi-instance table
Row name	Object
Restrictions	You can configure objects for a track entry only when the track entry exists in the TRACKEntries table and has TrackType set to TypeList.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectIndex	Object index.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectSign	Whether or not	N/A	Boolean:	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
	to negate the state of the object.		true—Negates the state of the object. false—Does not negate the state of the object (default).	specified only when the track entry is associated with a Boolean list.
ObjectWeight	Weight of the object.	N/A	Unsigned integer. Value range: 1 to 255. Default: 10.	This column can be specified only when the track entry is associated with a weight threshold list.

TRACK/TRACKOper

This table contains operation information about track entries.

XML structure

```

<TRACK>
  <TrackOper>
    <Operation>
      <TrackIndex></TrackIndex>
      <PositiveDelay></PositiveDelay>
      <NegativeDelay></NegativeDelay>
      <PositiveThresholdPercent></PositiveThresholdPercent>
      <NegativeThresholdPercent></NegativeThresholdPercent>
      <PositiveThresholdWeight></PositiveThresholdWeight>
      <NegativeThresholdWeight></NegativeThresholdWeight>
    </Operation>
  </TrackOper>
</TRACK>

```

Table description

Item	Description
Feature name	TRACK
Table name	TrackOper
Table type	Multi-instance table
Row name	Operation
Restrictions	You can configure the operation information for a track entry only when the track entry exists in the TRACKEntries table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
PositiveDelay	Specifies the positive state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300. Default: 0.	N/A
NegativeDelay	Specifies the negative state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300. Default: 0.	N/A
PositiveThresholdPercent	Specifies the positive state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 100. Default: 1.	This column can be specified only when the track entry is associated with a percentage threshold list.
NegativeThresholdPercent	Specifies the negative state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 100. Default: 0.	This column can be specified only when the track entry is associated with a percentage threshold list.
PositiveThresholdWeight	Specifies the positive state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 255. Default: 1.	This column can be specified only when the track entry is associated with a weight threshold list.
NegativeThresholdWeight	Specifies the negative state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	This column can be specified only when the track entry is associated with a weight threshold list.

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Table description	5
Columns	6

TRACK

TRACK/TRACKEntries

This table contains information about track entries.

XML structure

```
<TRACK>
  <TrackEntries>
    <TrackEntry>
      <TrackIndex></TrackIndex>
      <TypeInterface>
        <IfIndex></IfIndex>
        <IfStateType></IfStateType>
      </TypeInterface>
      <TypeBfd>
        <EchoIfIndex></EchoIfIndex>
        <RemoteIp></RemoteIp>
        <LocalIp></LocalIp>
      </TypeBfd>
      <TypeCfd>
        <ServiceInstance></ServiceInstance>
        <MepId></MepId>
      </TypeCfd>
      <TypeRoute>
        <VRF></VRF>
        <IpAddress></IpAddress>
        <MaskLength></MaskLength>
      </TypeRoute>
      <TypeNqa>
        <AdminName></AdminName>
        <OperationTag></OperationTag>
        <ReactionNum></ReactionNum>
      </TypeNqa>
      <TypeList>
        <ListType></ListType>
      </TypeList>
    </TrackEntry>
  </TrackEntries>
</TRACK>
```

Table description

Item	Description
Feature name	TRACK
Table name	TrackEntries
Table type	Multi-instance table
Row name	TrackEntry
Restrictions	Only one tracked object type can be specified for a track entry. You cannot modify the settings of the track entry after creating it in this table. If you need to do this, you must delete the track entry and then create it again.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TypeInterface	Associates the track entry with an interface.	Data structure	Members include: - IfIndex. - IfStateType.	All the members must be specified.
IfIndex	Interface index.	N/A	Unsigned integer.	N/A
IfStateType	Type of the interface state.	N/A	Enumeration: 1—Link state. 2—Physical state. 3—IPv4 protocol state. 4—IPv6 protocol state.	N/A
TypeBfd	Associates the track entry with a BFD session.	Data structure	Members include: - EchoIfIndex. - RemoteIp. - LocalIp.	All the members must be specified.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	N/A	Unsigned integer.	N/A
RemoteIp	Specifies the destination IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
LocalIp	Specifies the source IP	N/A	IPv4: String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of the BFD echo packets.			
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: - ServiceInstance. - Mepld.	All the members must be specified.
ServiceInstance	Specifies a service instance ID.	N/A	Unsigned integer. Value range: 1 to 32767.	N/A
Mepld	Specifies a MEP ID	N/A	Unsigned integer. Value range: 1 to 8191.	N/A
TypeRoute	Associates the track entry with a route entry.	Data structure	Members include: - VRF. - IpAddress. - MaskLength.	The IpAddress member and MaskLength member must be specified.
VRF	VRF instance name.	N/A	String. Length: 1 to 31 characters.	N/A
IpAddress	IP address of the route entry.	N/A	IPv4: String, dotted decimal notation.	N/A
MaskLength	Mask length of the route entry.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
TypeNqa	Associates the track entry with an NQA operation.	Data structure	Members include: - AdminName. - OperationTag. - ReactionNum.	All the members must be specified.
AdminName	Administrator name of the NQA operation.	N/A	String. Length: 1 to 32 characters.	N/A
OperationTag	Operation tag of the NQA operation.	N/A	String. Length: 1 to 32 characters.	N/A
ReactionNum	Reaction entry associated with the NQA entry.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
TypeList	Associates the track entry with a tracked list.	Data structure	Members include: ListType.	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: 1—Boolean AND list. 2—Boolean OR list.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—Percentage threshold list. 4—Weight threshold list.	

TRACK/TRACKObjectList

This table contains information about objects in tracked lists.

XML structure

```

<TRACK>
  <ObjectList>
    <Object>
      <TrackIndex></TrackIndex>
      <ObjectIndex></ObjectIndex>
      <ObjectSign></ObjectSign>
      <ObjectWeight></ObjectWeight>
    </Object>
  </ObjectList>
</TRACK>

```

Table description

Item	Description
Feature name	TRACK
Table name	ObjectList
Table type	Multi-instance table
Row name	Object
Restrictions	You can configure objects for a track entry only when the track entry exists in the TRACKEntries table and has TrackType set to TypeList.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectIndex	Object index.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
ObjectSign	Whether or not	N/A	Boolean:	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
	to negate the state of the object.		true—Negates the state of the object. false—Does not negate the state of the object (default).	specified only when the track entry is associated with a Boolean list.
ObjectWeight	Weight of the object.	N/A	Unsigned integer. Value range: 1 to 255. Default: 10.	This column can be specified only when the track entry is associated with a weight threshold list.

TRACK/TRACKOper

This table contains operation information about track entries.

XML structure

```

<TRACK>
  <TrackOper>
    <Operation>
      <TrackIndex></TrackIndex>
      <TrackState></TrackState>
      <PositiveDelay></PositiveDelay>
      <NegativeDelay></NegativeDelay>
      <NotifyDelay></NotifyDelay>
      <PositiveThresholdPercent></PositiveThresholdPercent>
      <NegativeThresholdPercent></NegativeThresholdPercent>
      <PositivePercent></PositivePercent>
      <PositiveThresholdWeight></PositiveThresholdWeight>
      <NegativeThresholdWeight></NegativeThresholdWeight>
      <PositiveWeight></PositiveWeight>
    </Operation>
  </TrackOper>
</TRACK>

```

Table description

Item	Description
Feature name	TRACK
Table name	TrackOper
Table type	Multi-instance table
Row name	Operation
Restrictions	You can configure the operation information for a track entry only when the track entry exists in the TRACKEntries table.

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TrackIndex	Index of the track entry.	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackState	State of the track entry.	N/A	Enumeration: 1—NotReady. 2—Positive. 3—Negative.	N/A
PositiveDelay	Specifies the positive state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300. Default: 0.	N/A
NegativeDelay	Specifies the negative state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300. Default: 0.	N/A
NotifyDelay	Remaining time of notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300. Default: 0.	N/A
PositiveThresholdPercent	Specifies the positive state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 100. Default: 1.	This column can be specified only when the track entry is associated with a percentage threshold list.
NegativeThresholdPercent	Specifies the negative state threshold in percentage.	N/A	Unsigned integer. Value range: 0 to 100. Default: 0.	This column can be specified only when the track entry is associated with a percentage threshold list.
PositivePercent	Percentage of positive objects in the tracked list.	N/A	Unsigned integer. Value range: 0 to 100. Default: 0.	N/A
PositiveThresholdWeight	Specifies the positive state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 255. Default: 1.	This column can be specified only when the track entry is associated with a weight threshold list.
NegativeThresholdWeight	Specifies the negative state threshold in weight.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	This column can be specified only when the track entry is associated with a weight threshold list.

Column name	Column description	Column type	Data type and restrictions	Remarks
PositiveWeight	Weight of positive objects in the tracked list.	N/A	Unsigned integer. Value range: 0 to 1530. Default: 0.	N/A

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XML structure	2
Table description	3
Columns	3
TroubleShoot/StopPktTrace	4
XML structure	4
Table description	4
Columns	4

TroubleShoot

TroubleShoot/WebDiagnose

This table is used for starting Web diagnosis. All the columns are diagnosis arguments.

XML structure

```
<TroubleShoot>
  <WebDiagnose>
    <WebDiagnoseItem>
      <ClientIP></ClientIP>
      <WebUrl></WebUrl>
    </WebDiagnoseItem>
  </WebDiagnose>
</TroubleShoot>
```

Response XML structure

```
<TroubleShoot>
  <WebDiagnose>
    <WebDiagnoseItem>
      <ItemID></ItemID>
      <ItemName></ItemName>
      <Result></Result>
      <Information></Information>
    </WebDiagnoseItem>
  </WebDiagnose>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	WebDiagnose
Table type	Multi-instance table
Row name	WebDiagnoseItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientIP	IP address of client	Index	IP address.	Example: 1.1.1.1.
WebUrl	URL of the Web server	Index	String. Length: 1 to 253 characters.	Example: http://www.example.com/index.html.

Response columns

Column name	Column description	Column type	Data type and restrictions
ItemID	Diagnosis item ID	Index	Unsigned integer.
ItemName	Diagnosis item name	N/A	String. Length: 1 to 63 characters.
Result	Diagnosis result	N/A	Boolean: true—Succeeded. false—Failed.
Information	Detailed diagnosis information	N/A	String. Length: 1 to 1023 characters.

TroubleShoot/StartPktTrace

This table is used for starting packet trace diagnosis. All the columns are diagnosis arguments.

XML structure

```
<TroubleShoot>
  <StartPktTrace>
    <Type></Type>
    <IfIndex></IfIndex>
    <Protocol></Protocol>
    <IPAddrVer></IPAddrVer>
    <SrcIP></SrcIP>
    <DstIP></DstIP>
    <SrcPort></SrcPort>
    <DstPort></DstPort>
    <SrcMAC></SrcMAC>
    <DstMAC></DstMAC>
    <VlanID></VlanID>
    <FileName></FileName>
    <RealFlowDiagTime></RealFlowDiagTime>
```

```

</StartPktTrace>
</TroubleShoot>

```

Table description

Item	Description
Feature name	TroubleShoot
Table name	StartPktTrace
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Diagnosis type.	N/A	Enumeration: 1—Construct packet diagnosis. 2—Real flow diagnosis. 3—Import packet diagnosis.	Required.
IfIndex	Interface index	N/A	Unsigned integer.	Required when diagnosis type is 1 or 3.
Protocol	Packet protocol type	N/A	Unsigned integer. Value range: 0 to 255.	Required when diagnosis type is 1.
IPAddrVer	IP version	N/A	Enumeration: 1—IPv4. 2—IPv6.	Required.
SrcIP	Source IP address	N/A	IPv4 address or IPv6 address.	Required when diagnosis type is 1.
DstIP	Destination IP address	N/A	IPv4 address or IPv6 address.	Required when diagnosis type is 1.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	Required when diagnosis type is 1.
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	Required when diagnosis type is 1.
SrcMAC	Source MAC address	N/A	MAC address.	N/A
DstMAC	Destination MAC address	N/A	MAC address.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
FileName	Selects a .pcap or .cap file to import	N/A	String. Length: 1 to 253 characters.	Required when diagnosis type is 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
RealFlowDiag Time	Duration for service diagnosis based on real traffic (seconds)	N/A	Unsigned integer. Value range: 5 to 600.	Default value: 10 seconds.

TroubleShoot/StopPktTrace

This table is used to stop packet trace diagnosis.

XML structure

```

<TroubleShoot>
  <StopPktTrace>
    <Stop></Stop>
  </StopPktTrace>
</TroubleShoot>

```

Table description

Item	Description
Feature name	TroubleShoot
Table name	StopPktTrace
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Stop	Stop packet trace diagnosis	N/A	N/A	This column must be empty.

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Table description	1
Columns	1
TroubleShoot/PktTraceState	2
XML structure	2
Table description	2
Columns	2

TroubleShoot

TroubleShoot/PktTraceInfos

This table contains packet trace diagnosis information.

XML structure

```
<TroubleShoot>
  <PktTraceInfos>
    <PktTraceInfo>
      <FlowID></FlowID>
      <PacketID></PacketID>
      <ItemID></ItemID>
      <FlowDescription></FlowDescription>
      <PktDescription></PktDescription>
      <Time></Time>
      <ItemName></ItemName>
      <Result></Result>
      <ResultStr></ResultStr>
    </PktTraceInfo>
  </PktTraceInfos>
</TroubleShoot>
```

Table description

Item	Description
Feature name	TroubleShoot
Table name	PktTraceInfos
Table type	Multi-instance table
Row name	PktTraceInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
FlowID	Flow ID	Index	Unsigned integer.
PacketID	Packet ID	Index	Unsigned integer.
ItemID	Item ID	Index	Unsigned integer.
FlowDescription	Flow description	N/A	String. Length: 1 to 1023 characters.

Column name	Column description	Column type	Data type and restrictions
PktDescription	Packet description	N/A	String. Length: 1 to 1023 characters.
Time	Time when the diagnosis point is added.	N/A	String. Length: 1 to 31 characters.
ItemName	Diagnosis item name	N/A	String. Length: 1 to 63 characters.
Result	Diagnosis result	N/A	Boolean: true—Succeeded. false—Failed.
ResultStr	Diagnosis result description	N/A	String. Length: 1 to 1023 characters.

TroubleShoot/PktTraceState

This table contains packet trace diagnosis status information.

XML structure

```

<TroubleShoot>
  <PktTraceState>
    <State></State>
  </PktTraceState>
</TroubleShoot>

```

Table description

Item	Description
Feature name	TroubleShoot
Table name	PktTraceState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
State	Diagnosis status	N/A	Boolean: true—Diagnosis is not finished yet. false—Diagnosis is finished.

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- Tunnel 1
 - Tunnel/Detect 1
 - XML structure 1
 - Table description 1
 - Columns 1

Tunnel

Tunnel/Detect

This table is used to detect if vxlan tunnel is connected.

XML structure

```
<TUNNEL>
  <Detect>
    <StartDetect>
      <ID></ID>
      <RetryCount></RetryCount>
    </StartDetect>
  </Detect>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	Detect
Table type	Multi-instance table
Row name	StartDetect
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Tunnel ID	Index	N/A
RetryCount	Retry count	N/A	Unsigned integer. Value range: 1 to 5. Default: 3

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TUNNEL

TUNNEL/Tunnels

This table contains basic Tunnel information.

XML structure

```
<TUNNEL>
  <Tunnels>
    <Tunnel>
      <ID></ID>
      <Mode></Mode>
      <IPv4Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <IPv6Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv6Addr>
      <Tos> </Tos>
      <Dfbit></Dfbit>
      <Ttl></Ttl>
      <Keepalive>
        <Interval></Interval>
        <Times></Times>
      </Keepalive>
      <EncapLimit></EncapLimit>
      <VRF></VRF>
      <GRE>
        <Key></Key>
        <Checksum></Checksum>
        <VpcEnable></VpcEnable>
        <P2MPTemplate></P2MPTemplate>
      </GRE>
    </Tunnel>
  </Tunnels>
</TUNNEL>
```

```

<ServiceClass></ServiceClass>

<StaticRoute>
  <Enable></Enable>
  <Preference></Preference>
</StaticRoute>
</Tunnel>
</Tunnels>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID.	Index	Unsigned integer.	N/A
Mode	Tunnel mode.	N/A	Enumeration: • 1—GRE tunnel with the transport protocol being IPv4. • 2—GRE tunnel with the transport protocol being IPv6. • 3—IPv4 over IPv4 tunnel. • 4—IPv6 over IPv4 manually configured tunnel. • 5—IPv6 over IPv4 automatic tunnel. • 6—IPv6 over IPv4 6to4 tunnel. • 7—IPv6 over IPv4 ISATAP tunnel. • 8—IPv6 tunnel. Encapsulate IPv6 or IPv4 packets in	Mode must be set when creating a tunnel, and cannot be modified after creating.

Column name	Column description	Column type	Data type and restrictions	Remarks
			IPv6. • 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 10—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 12—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 13—CRLSP tunnel. • 14—Multicast GRE tunnel with the transport protocol being IPv4. • 15—Multicast GRE tunnel with the transport protocol being IPv6. • 16—IPsec tunnel with the transport protocol being IPv4. • 17—IPsec tunnel with the transport protocol being IPv6. • 18—EVI tunnel with the transport protocol being IPv4. • 19—EVI tunnel with the transport protocol being IPv6. • 20—EVI link with the transport protocol being IPv4. • 21—EVI link with the transport	

Column name	Column description	Column type	Data type and restrictions	Remarks
			protocol being IPv6. • 22—DS-Lite AFTR tunnel. • 23—CRLSP automatic tunnel. • 24—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 25—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 26—NVE tunnel with the transport protocol being IPv4. • 27—NVE tunnel with the transport protocol being IPv6. • 28—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • 29—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 30—IPv6 over IPv6 tunnel. • 31—IPv4 over IPv6 tunnel. • 32—IPv6 over IPv4 6rd tunnel. • 33—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 34—VXLANDCI tunnel with the passenger protocol being UDP and the transport protocol	

Column name	Column description	Column type	Data type and restrictions	Remarks
			being IPv6. 35—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. 36—IPv4 GRE P2MP tunnel. 37—IPv6 GRE P2MP tunnel.	
IPv4Addr	IPv4 source and destination address of tunnel.	Data structure	Members include: - SrcAddr - SrcIfIndex - DstAddr	This column is available only for tunnels with the transport protocol being IPv4.
SrcAddr	Tunnel source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
IPv6Addr	IPv6 source and destination address of tunnel.	Data structure	Members include: - SrcAddr - SrcIfIndex - DstAddr	This column is available only for tunnels with the transport protocol being IPv6.
SrcAddr	Tunnel source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
Tos	ToS value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 0 to 255. Default: 0.	The value 0 indicates that it is copied from the IP header of the inner layer.
Dfbit	Indicates whether to set the DF bit in the IP header of the tunneled	N/A	Boolean: true—sets DF bit false—does not set DF bit(default).	

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet.			
Ttl	TTL(Time to live) value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 1 to 255. Default: 255.	
Keepalive	Enable keepalive function of tunnel	Data structure	Members include: - interval. - times.	Currently, only GRE tunnel and EVI tunnel support this function.
Interval	Interval of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767(second). For GRE tunnel, default value is 10, for EVI tunnel, default value is 5.	
Times	Maximum times of retransmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 255. For GRE tunnel, default value is 3, for EVI tunnel, default value is 2.	
EncapLimit	Maximum number of nested encapsulations of a packet allowed on a tunnel interface	N/A	Unsigned integer. Value range: 0 to 10. Default: no limit to the nested encapsulations of a packet	
VRF	VRF to which the tunnel destination belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
GRE	Parameters of GRE tunnel	Data structure	Members include: - key. - checksum.	Only GRE tunnel support these parameters.
Key	Key to check for the validity of packets received on a GRE tunnel interface.	N/A	Unsigned integer. Value range: 0 to 4294967295. Default: no key is set.	
Checksum	Whether to	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	check GRE checksum		true—check GRE checksum. false—does not check GRE checksum(default)	
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: true—Carry. false—Not carry.	
P2MPTemplate	GRE P2MP tunnel template.	N/A	String. Length: 1 to 31 characters.	
ServiceClass	Service class for a tunnel.	N/A	Unsigned integer. The value range varies by device model.	N/A
StaticRoute	Static routing parameters of tunnel	Data structure	Members include: - enabel. - preference.	Only TE and P2MP tunnel support these parameters.
Enable	Whether to enable automatic configuration of a static route on the tunnel	N/A	Boolean: true—Enable. false—Disable(default).	N/A
Preference	Preference of the static route	N/A	Unsigned integer. Value range: 1 to 255.	The default value of preference is 60. This column is configurable only if the enable column has a value of true.

TUNNEL/GlobalConfig

This table contains global configuration information.

XML structure

```

<TUNNEL>
  <GlobalConfig>
    <VxlanUdpPort></VxlanUdpPort>
    <DropInvalidChksumPkt></DropInvalidChksumPkt>
    <DropInvalidVlanTagPkt></DropInvalidVlanTagPkt>
    <VxlanIpForward></VxlanIpForward>
  </GlobalConfig>

```

</TUNNEL>

Table description

Item	Description
Feature name	TUNNEL
Table name	GlobalConfig
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanUdpPort	Specifies the UDP port on which tunnel receive VXLAN packets.	N/A	Unsigned integer. Value range: 1 to 65535.	
DropInvalidChecksumPkt	Specifies the action of whether or not to drop VXLAN packets with invalid UDP checksum.	N/A	Boolean: • true—drop • false—not drop(default)	
DropInvalidVlanTagPkt	Specifies the action of whether or not to drop VXLAN packets with invalid VLAN tag after tunnel de-encapsulation.	N/A	Boolean: • true—drop • false—not drop(default)	
VxlanIpForward	Specifies the action of whether or not to use the L3 forwarding mode.	N/A	Boolean: • true—using L3 forwarding mode • false—using L2 forwarding mode(default)	

TUNNEL/GREP2MPTemplates

This table contains GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplates>
    <GREP2MPTemplate>
      <TemplateName></TemplateName>
    </GREP2MPTemplate>
  </GREP2MPTemplates>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplates
Table type	Multi-instance table
Row name	GREP2MPTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/GREP2MPTemplateMaps

This table contains map information in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplateMaps>
    <GREP2MPTemplateMap>
```

```

<TemplateName></TemplateName>
<VrfIndex></VrfIndex>
<BranchNetworkIPAddr></BranchNetworkIPAddr>
<BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
<TunnelDestIPAddr></TunnelDestIPAddr>
<ChecksumFill></ChecksumFill>
</GREP2MPTemplateMap>
</GREP2MPTemplateMaps>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	GREP2MPTemplateMap
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel map.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see “Appendix” in L3vpn NETCONF XML API Data Reference.
BranchNetworkIPAddr	Branch network IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IP address.	Index	String, dotted decimal notation.	The member of BranchNetworkIPAddr must also be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelDestIPAddr	Tunnel destination IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 2.2.2.2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

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Table description	14
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XML structure	14
Table description	15
Columns	15

TUNNEL

TUNNEL/Tunnels

This table contains basic Tunnel information.

XML structure

```
<TUNNEL>
  <Tunnels>
    <Tunnel>
      <ID></ID>
      <Mode></Mode>
      <IfIndex></IfIndex>
      <IPv4Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv4Addr>
      <IPv6Addr>
        <SrcAddr></SrcAddr>
        <SrcIfIndex></SrcIfIndex>
        <DstAddr></DstAddr>
      </IPv6Addr>
      <Connectivity></Connectivity>
      <Tos> </Tos>
      <Dfbit></Dfbit>
      <Ttl></Ttl>
      <Keepalive>
        <Interval></Interval>
        <Times></Times>
      </Keepalive>
      <EncapLimit></EncapLimit>
      <VRF></VRF>
      <GRE>
        <Key></Key>
        <Checksum></Checksum>
        <VpcEnable></VpcEnable>
```

```

        <P2MPTemplate></P2MPTemplate>
    </GRE>
    <ServiceClass></ServiceClass>
    <StaticRoute>
        <Enable></Enable>
        <Preference></Preference>
    </StaticRoute>
</Tunnel>
</Tunnels>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Tunnel ID.	Index	Unsigned integer.	N/A
Mode	Tunnel mode.	N/A	Enumeration: 1—GRE tunnel with the transport protocol being IPv4. 2—GRE tunnel with the transport protocol being IPv6. 3—IPv4 over IPv4 tunnel. 4—IPv6 over IPv4 manually configured tunnel. 5—IPv6 over IPv4 automatic tunnel. 6—IPv6 over IPv4 6to4 tunnel. 7—IPv6 over IPv4 ISATAP tunnel. 8—IPv6 tunnel. Encapsulate IPv6	

Column name	Column description	Column type	Data type and restrictions	Remarks
			or IPv4 packets in IPv6. • 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 10—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 12—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 13—CRLSP tunnel. • 14—Multicast GRE tunnel with the transport protocol being IPv4. • 15—Multicast GRE tunnel with the transport protocol being IPv6. • 16—IPsec tunnel with the transport protocol being IPv4. • 17—IPsec tunnel with the transport protocol being IPv6. • 18—EVI tunnel with the transport protocol being IPv4. • 19—EVI tunnel with the transport protocol being IPv6. • 20—EVI link with the transport protocol being IPv4. • 21—EVI link with	

Column name	Column description	Column type	Data type and restrictions	Remarks
			the transport protocol being IPv6. • 22—DS-Lite AFTR tunnel. • 23—CRLSP automatic tunnel. • 24—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 25—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 26—NVE tunnel with the transport protocol being IPv4. • 27—NVE tunnel with the transport protocol being IPv6. • 28—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • 29—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 30—IPv6 over IPv6 tunnel. • 31—IPv4 over IPv6 tunnel. • 32—IPv6 over IPv4 6rd tunnel. • 33—VXLANCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 34—VXLANCI tunnel with the passenger protocol being UDP and the	

Column name	Column description	Column type	Data type and restrictions	Remarks
			transport protocol being IPv6. 35—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. 36—IPv4 GRE P2MP tunnel. 37—IPv6 GRE P2MP tunnel.	
IfIndex	Interface index of tunnel	N/A	Unsigned integer.	
IPv4Addr	IPv4 source and destination address of tunnel.	Data structure	Members include: - SrcAddr - SrcIfIndex - DstAddr	This column is available only for tunnels with the transport protocol being IPv4.
SrcAddr	Tunnel source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 2.2.2.2.
IPv6Addr	IPv6 source and destination address of tunnel.	Data structure	Members include: - SrcAddr - SrcIfIndex - DstAddr	This column is available only for tunnels with the transport protocol being IPv6.
SrcAddr	Tunnel source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
SrcIfIndex	Tunnel source interface index.	N/A	Unsigned integer.	This column is available when the SrcAddr column is empty.
DstAddr	Tunnel destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 2:2::2:2.
Connectivity	Tunnel connectivity	N/A	Enumeration: 1—Connected. 2—Disconnected. 3—Detecting. 4—Unknown.	Use “ping” to detect if tunnel remote is connected.

Column name	Column description	Column type	Data type and restrictions	Remarks
Tos	Tos value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 0 to 255.	The value 0 indicates that it is copied from the IP header of the inner layer.
Dfbit	Indicates whether to set the DF bit in the IP header of the tunneled packet.	N/A	Boolean: true—sets DF bit false—does not set DF bit.	
Ttl	TTL(Time to live) value in the IP header of the tunneled packet.	N/A	Unsigned integer. Value range: 1 to 255.	
Keepalive	Enable keepalive function of tunnel	Data structure	Members include: - interval. - times.	Currently, only GRE tunnel and EVI tunnel support this function.
Interval	Interval of transmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 32767(second).	
Times	Maximum times of retransmitting keepalive packets	N/A	Unsigned integer. Value range: 1 to 255.	
EncapLimit	Maximum number of nested encapsulations of a packet allowed on a tunnel interface	N/A	Unsigned integer. Value range: 0 to 10.	
VRF	VRF to which the tunnel destination belongs.	N/A	String, case-sensitive. Length: 1 to 31 characters.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
GRE	Parameters of GRE tunnel	Data structure	Members include: - key. - checksum.	Only GRE tunnel support these parameters.
Key	Key to check for the	N/A	Unsigned integer. Value range: 0 to	

Column name	Column description	Column type	Data type and restrictions	Remarks
	validity of packets received on a GRE tunnel interface.		4294967295.	
Checksum	Whether to check GRE checksum	N/A	Boolean: true—check GRE checksum. false—does not check GRE checksum.	
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: true—Carry. false—Not carry.	
P2MPTemplate	GRE P2MP tunnel template.	N/A	String. Length: 1 to 31 characters.	
ServiceClass	Service class for a tunnel.	N/A	Unsigned integer. The value range varies by device model.	N/A
StaticRoute	Static routing parameters of tunnel	Data structure	Members include: - enabel. - preference.	Only TE and P2MP tunnel support these parameters.
Enable	Whether to enable automatic configuration of a static route on the tunnel	N/A	Boolean: true—Enable. false—Disable(default).	N/A
Preference	Preference of the static route	N/A	Unsigned integer. Value range: 1 to 255.	The default value of preference is 60. This column is configurable only if the enable column has a value of true.

TUNNEL/AvailableTunnelID

This table contains the available tunnel ID.

XML structure

```

<TUNNEL>
  <AvailableTunnelID>
    <ID></ID>

```



```

    </AvailableTunnelID>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	AvailableTunnelID
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Available tunnel ID	N/A	Unsigned integer.	

TUNNEL/GlobalConfig

This table contains global configuration information.

XML structure

```

<TUNNEL>
  <GlobalConfig>
    <VxlanUdpPort></VxlanUdpPort>
    <DropInvalidChksumPkt></DropInvalidChksumPkt>
    <DropInvalidVlanTagPkt></DropInvalidVlanTagPkt>
    <VxlanIpForwarding></VxlanIpForwarding>
  </GlobalConfig>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	GlobalConfig
Table type	Single-instance table

Item	Description
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanUdpPort	Specifies the UDP port on which tunnel receive VXLAN packets.	N/A	Unsigned integer. Value range: 1 to 65535.	
DropInvalidChecksumPkt	Specifies the action of whether or not to drop VXLAN packets with invalid UDP checksum.	N/A	Boolean: - true—drop - false—not drop	
DropInvalidVlanTagPkt	Specifies the action of whether or not to drop VXLAN packets with invalid VLAN tag after tunnel de-encapsulation.	N/A	Boolean: - true—drop - false—not drop	
VxlanIpForwarding	Specifies the action of whether or not to use the L3 forwarding mode.	N/A	Boolean: - true—using L3 forwarding mode - false—using L2 forwarding mode	

TUNNEL/TotalNums

This table contains total number of tunnels.

XML structure

```

<TUNNEL>
  <TotalNums>
    <TotalNum>
      <Mode></Mode>

```

```

        <Num></Num>
    </TotalNum>
</TotalNums>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	TotalNums
Table type	Multi-instance table
Row name	TotalNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Tunnel mode.	Index	Enumeration: 1—GRE tunnel with the transport protocol being IPv4. 2—GRE tunnel with the transport protocol being IPv6. 3—IPv4 over IPv4 tunnel. 4—IPv6 over IPv4 manually configured tunnel. 5—IPv6 over IPv4 automatic tunnel. 6—IPv6 over IPv4 6to4 tunnel. 7—IPv6 over IPv4 ISATAP tunnel. 8—IPv6 tunnel. Encapsulate IPv6 or IPv4 packets in IPv6. 9—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv4. 10—DVPN tunnel with the passenger protocol being	

Column name	Column description	Column type	Data type and restrictions	Remarks
			GRE and the transport protocol being IPv4. • 11—DVPN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 12—DVPN tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 13—CRLSP tunnel. • 14—Multicast GRE tunnel with the transport protocol being IPv4. • 15—Multicast GRE tunnel with the transport protocol being IPv6. • 16—IPsec tunnel with the transport protocol being IPv4. • 17—IPsec tunnel with the transport protocol being IPv6. • 18—EVI tunnel with the transport protocol being IPv4. • 19—EVI tunnel with the transport protocol being IPv6. • 20—EVI link with the transport protocol being IPv4. • 21—EVI link with the transport protocol being IPv6. • 22—DS-Lite AFTR tunnel. • 23—CRLSP automatic tunnel. • 24—VXLAN tunnel with the passenger protocol being UDP and the	

Column name	Column description	Column type	Data type and restrictions	Remarks
			transport protocol being IPv4. • 25—VXLAN tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 26—NVE tunnel with the transport protocol being IPv4. • 27—NVE tunnel with the transport protocol being IPv6. • 28—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4. • 29—NVGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv6. • 30—IPv6 over IPv6 tunnel. • 31—IPv4 over IPv6 tunnel. • 32—IPv6 over IPv4 6rd tunnel. • 33—VXLANCI tunnel with the passenger protocol being UDP and the transport protocol being IPv4. • 34—VXLANCI tunnel with the passenger protocol being UDP and the transport protocol being IPv6. • 35—MGRE tunnel with the passenger protocol being GRE and the transport protocol being IPv4.	
Num	Number of tunnels.	N/A	Unsigned integer.	

TUNNEL/ AvailableSrcIfTypes

This table contains source interface types of tunnel.

XML structure

```
<TUNNEL>
  <AvailableSrcIfTypes>
    <AvailableSrcIfType>
      <IfIndex></IfIndex>
      <Name></Name>
      <AbbreviatedName></AbbreviatedName>
    </AvailableSrcIfType>
  </AvailableSrcIfTypes>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	AvailableSrcIfTypes
Table type	Multi-instance table
Row name	AvailableSrcIfType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Name	Full name of an interface	String. N/A	String. Length: 2 to 47 characters.	N/A
AbbreviatedName	Abbreviated name of an interface	N/A	String. Length: 2 to 47 characters.	N/A

TUNNEL/GREP2MPTemplates

This table contains GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplates>
    <GREP2MPTemplate>
      <TemplateName></TemplateName>
    </GREP2MPTemplate>
  </GREP2MPTemplates>
</TUNNEL>
```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplates
Table type	Multi-instance table
Row name	GREP2MPTemplate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A

TUNNEL/GREP2MPTemplateMaps

This table contains map information in GRE P2MP tunnel templates.

XML structure

```
<TUNNEL>
  <GREP2MPTemplateMaps>
    <GREP2MPTemplateMap>
      <TemplateName></TemplateName>
```

```

    <VrfIndex></VrfIndex>
    <BranchNetworkIPAddr></BranchNetworkIPAddr>
    <BranchNetworkIPAddrMask></BranchNetworkIPAddrMask>
    <TunnelDestIPAddr></TunnelDestIPAddr>
    <ChecksumFill></ChecksumFill>
  </GREP2MPTemplateMap>
</GREP2MPTemplateMaps>
</TUNNEL>

```

Table description

Item	Description
Feature name	TUNNEL
Table name	GREP2MPTemplateMaps
Table type	Multi-instance table
Row name	GREP2MPTemplateMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TemplateName	GRE P2MP tunnel template name.	Index	String. Length: 1 to 31 characters.	N/A
VrfIndex	VPN index for a tunnel map.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. For information about VRFIndex, see "Appendix" in L3vpn NETCONF XML API Data Reference.
BranchNetworkIPAddr	Branch network IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 1.1.1.1.
BranchNetworkIPAddrMask	Mask of the branch network IP address.	Index	String, dotted decimal notation.	The member of BranchNetworkIPAddr must also be specified.
TunnelDestIPAddr	Tunnel destination IP address for a tunnel map.	Index	String, dotted decimal notation.	Example: 2.2.2.2.
ChecksumFill	Checksum value.	N/A	String, dotted decimal notation.	Example: 3.3.3.3.

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UFLT

UFLT/SignatureManualUpgrading

This table is used to update signature manually.

XML structure

```
<UFLT>
  <SignatureManualUpgrading>
    <URL></URL>
  </SignatureManualUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureManualUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URL	URL	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

UFLT/SignatureRollback

This table is used to rollback signature file.

XML structure

```
<UFLT>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureRollback
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Rollback	Rollback flag	N/A	Enumeration: 0—Roll back to the original version 1—Roll back to the last version	N/A

UFLT/PolicyCopy

This table is used to copy a policy to create a new policy

XML structure

```
<UFLT>
  <PolicyCopy>
    <Policy>
      <SrcPolicy></SrcPolicy>
      <DstPolicy></DstPolicy>
    </Policy>
  </PolicyCopy>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyCopy
Table type	Single-instance table
Row name	Policy

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPolicy	Source policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstPolicy	Destination policy name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

UFLT/PolicyRename

This table is used to rename a policy.

XML structure

```

<UFLT>
  <PolicyRename>
    <Policy>
      <PolicyOldName></PolicyOldName>
      <PolicyNewName></PolicyNewName>
    </Policy>
  </PolicyRename>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyRename
Table type	Single-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyOldName	Old name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
PolicyNewName	New name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

UFLT/CategoryRename

This table is used to rename a category.

XML structure

```
<UFLT>
  <CategoryRename>
    <Category>
      <CategoryOldName></CategoryOldName>
      <CategoryNewName></CategoryNewName>
    </Category>
  </CategoryRename>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CategoryRename
Table type	Single-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryOldName	Old name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
CategoryNewName	New name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

UFLT/StatisticReset

This table is used to reset URL filter statistics

XML structure

```
<UFLT>
  <StatisticReset>
    <Reset/>
  </StatisticReset>
```

</UFLT>

Table description

Item	Description
Feature name	URL
Table name	StatisticReset
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Reset	Reset statistics information	N/A	This column must be empty.	N/A

UFLT/SignatureAutoUpgradeNow

This table is used to update signature automatically now.

XML structure

```
<UFLT>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureAutoUpgradeNow
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoUpgradeNow	Immediate auto upgrade	N/A	This column must be empty.	N/A

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UFLT

UFLT/Policies

This table contains URL filter policy information

XML structure

```
<UFLT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <DefaultAction></DefaultAction>
      <DefaultActInstance></DefaultActInstance>
      <DefaultActLoggingEnable></DefaultActLoggingEnable>
      <DefaultActLogging></DefaultActLogging>
      <CloudQuery></CloudQuery>
    </Policy>
  </Policies>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String: case-insensitive Length: 1 to 31 characters	N/A
DefaultAction	Default action	N/A	Enumeration: 0—Permit 1—Drop 2—Reset 3—Redirect	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4—Block	
DefaultActInstance	Default action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
DefaultActLoggingEnable	Default action logging switch	N/A	Enumeration: 0—Disable 1—Enable	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
CloudQuery	Cloud querying	N/A	Enumeration: 1—Enable 2—Disable	N/A

UFLT/PolicyFilter

This table contains information about URL filter category in a policy

XML structure

```

<UFLT>
  <PolicyFilter>
    <Filter>
      <PolicyName></PolicyName>
      <CategoryName></CategoryName>
      <Action></Action>
      <Instance></Instance>
      <LoggingEnable></LoggingEnable>
      <Logging></Logging>
    </Filter>
  </PolicyFilter>
</UFLT>

```

Table description

Item	Description
Feature name	UrlFilter
Table name	PolicyFilter
Table type	Multi-instance table
Row name	Filter
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Action type	N/A	Enumeration: • 0—Permit • 1—Drop • 2—Reset • 3—Redirect • 4—Block	N/A
Instance	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
LoggingEnable	Whether logging is enabled or disabled	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
Logging	Logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/PolicyInProfile

This table contains information about a URL filter policy used by an APP profile.

XML structure

```
<UFLT>
  <PolicyInProfile>
    <Policy>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Policy>
  </PolicyInProfile>
</UFLT>
```

Table description

Item	Description
Feature name	AppProfile
Table name	PolicyInProfile
Table type	Single-instance table
Row name	Policy

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 63 characters	N/A
PolicyName	Name of the URL filter policy	N/A	String, case-insensitive Length: 1 to 31 characters	N/A

UFLT/Categories

This table contains information about the URL filter category.

XML structure

```

<UFLT>
  <Categories>
    <Category>
      <CategoryName></CategoryName>
      <Critical></Critical>
      <CategoryType></CategoryType>
      <Description></Description>
      <PreCategoryReferred></PreCategoryReferred>
      <PreCategoryID></PreCategoryID>
    </Category>
  </Categories>
</UFLT>

```

Table description

Item	Description
Feature name	UrlFilter
Table name	Categories
Table type	Multi-instance table
Row name	Category
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Critical	Critical	N/A	UnsignedShort	N/A
CategoryType	Category type	N/A	Enumeration: 0—Pre-define 1—User-define	N/A
Description	Description	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PreCategoryReferred	Referenced previous defined category	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
PreCategoryID	Previous defined category ID	N/A	UnsignedShort	N/A

UFLT/RuleInCategory

This table contains information about the URL filter rule in a category.

XML structure

```
<UFLT>
  <RuleInCategory>
    <Rule>
      <CategoryName></CategoryName>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIStrng></URIStrng>
    </Rule>
  </RuleInCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	RuleInCategory
Table type	Multi-instance table
Row name	Rule

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
RuleID	RuleID	Index	Unsigned Integer Value range: 1 to 65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: - String, case-insensitive - Length: 3 to 224 characters If host type is regex: - OctectString - Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URIString	URI string	N/A	If URI type is text: - String, case-insensitive - Length: 3 to 255 characters If URI type is regex: - OctectString - Length: 3 to 253 characters	N/A

UFLT/BlackWhiteList

This table contains information about blacklist and whitelist.

XML structure

```

<UFLT>
  <BlackWhiteList>
    <PolicyRule>
      <PolicyName></PolicyName>
      <BlackOrWhite></BlackOrWhite>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIString></URIString>
    </PolicyRule>
  </BlackWhiteList>
</UFLT>

```

```

    </PolicyRule>
  </BlackWhiteList>
</UFLT>

```

Table description

Item	Description
Feature name	UrlFilter
Table name	BlackWhiteList
Table type	Multi-instance table
Row name	PolicyRule
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive Length: 1 to 31 characters	Case insensitive
BlackOrWhite	Blacklist or whitelist	Index	Enumeration: 1—Whitelist 2—Blacklist	N/A
RuleID	Rule ID	Index	Unsigned Integer: 1-65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: - String, case-insensitive - Length: 3 to 224 characters If URI type is regex: - OctectString - Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URI String	URI string	N/A	If URI type is text: - String, case-insensitive - Length: 3 to 245 characters If URI type is regex: - OctectString - Length: 3 to 245 characters	N/A

UFLT/SignatureAutoUpgrading

This table contains information about auto upgrading of URL filter signatures.

XML structure

```
<UFLT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: - true - false	Default is false
StartTime	Time when the system performs auto upgrading	N/A	Time. Format: HH:MM:SS	Default: 02:00:00.
Type	Type of the system auto upgrading	N/A	Enumeration: 0—Week 1—Periodic	Default: 1.
Day	Days	N/A	Unsigned integer Value range: 0 to 6	When Type is 0 , the value range is 0 to 6. Otherwise, the value is invalid.

UFLT/CacheConfig

This table contains information about the cache configuration.

XML structure

```
<UFLT>
  <CacheConfig>
    <DomainName></DomainName>
  </CacheConfig>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	CacheConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case-insensitive Length: 1 to 255 characters	N/A

UFLT/ActionInstance

This table contains action instance information.

XML structure

```
<UFLT>
  <ActionInstance>
    <InstanceConfig>
      <ActionType></ActionType>
      <InstanceName></InstanceName>
    </InstanceConfig>
  </ActionInstance>
</UFLT >
```

Table description

Item	Description
Feature name	IPS
Table name	ActionInstance
Table type	Multi -instance table
Row name	InstanceConfig
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionType	Action	Index	Enumeration: • 1—Logging • 2—Redirect • 3—Block	N/A
InstanceName	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

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XML structure	8
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UFLT

UFLT/Policies

This table contains URL filter policy information

XML structure

```
<UFLT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <DefaultAction></DefaultAction>
      <DefaultActInstance></DefaultActInstance>
      <DefaultActLoggingEnable></DefaultActLoggingEnable>
      <DefaultActLogging></DefaultActLogging>
      <CloudQuery></CloudQuery>
    </Policy>
  </Policies>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	Policies
Table type	Multi-instance table
Row name	Policy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String: case-insensitive Length: 1 to 31 characters	N/A
DefaultAction	Default action	N/A	Enumeration: • 0—Permit • 1—Drop • 2—Reset • 3—Redirect • 4—Block	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultActInstance	Default action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
DefaultActLoggingEnable	Default action logging switch	N/A	Enumeration: 0—Disable 1—Enable	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
CloudQuery	Cloud querying	N/A	Enumeration: 1—Enable 2—Disable	N/A

UFLT/PolicyFilter

This table contains information about URL filter category in a policy

XML structure

```

<UFLT>
  <PolicyFilter>
    <Filter>
      <PolicyName></PolicyName>
      <CategoryName></CategoryName>
      <Action></Action>
      <Instance></Instance>
      <LoggingEnable></LoggingEnable>
      <Logging></Logging>
    </Filter>
  </PolicyFilter>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyFilter
Table type	Multi-instance table
Row name	Filter
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Action type	N/A	Enumeration: • 0—Permit • 1—Drop • 2—Reset • 3—Redirect • 4—Block	N/A
Instance	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
LoggingEnable	Whether logging is enabled or disabled	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
Logging	Logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

UFLT/PolicyInProfile

This table contains information about a URL filter policy used by an APP profile.

XML structure

```
<UFLT>
  <PolicyInProfile>
    <Policy>
      <ProfileName></ProfileName>
      <PolicyName></PolicyName>
    </Policy>
  </PolicyInProfile>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	PolicyInProfile
Table type	Single-instance table
Row name	Policy

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 63 characters	N/A
PolicyName	Name of the URL filter policy	N/A	String, case-insensitive Length: 1 to 31 characters	N/A

UFLT/Categories

This table contains information about the URL filter category.

XML structure

```

<UFLT>
  <Categories>
    <Category>
      <CategoryName></CategoryName>
      <Critical></Critical>
      <CategoryType></CategoryType>
      <Description></Description>
      <PreCategoryReferred></PreCategoryReferred>
      <PreCategoryID></PreCategoryID>
    </Category>
  </Categories>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	Categories
Table type	Multi-instance table
Row name	Category
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String: case-insensitive Length: 1 to 63 characters	N/A
Critical	Critical	N/A	UnsignedShort	N/A
CategoryType	Category type	N/A	Enumeration: 0—Pre-define 1—User-define	N/A
Description	Description	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PreCategoryReferred	Referenced previous defined category	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
PreCategoryID	Previous defined category ID	N/A	UnsignedShort	N/A

UFLT/RuleInCategory

This table contains information about the URL filter rule in a category.

XML structure

```
<UFLT>
  <RuleInCategory>
    <Rule>
      <CategoryName></CategoryName>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIStrng></URIStrng>
    </Rule>
  </RuleInCategory>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	RuleInCategory
Table type	Multi-instance table
Row name	Rule

Restrictions	None
--------------	------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
RuleID	RuleID	Index	Unsigned Integer Value range: 1 to 65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: - String, case-insensitive - Length: 3 to 224 characters If host type is regex: - OctectString - Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URIString	URI string	N/A	If URI type is text: - String, case-insensitive - Length: 3 to 255 characters If URI type is regex: - OctectString - Length: 3 to 253 characters	N/A

UFLT/Statistic

This table contains the information about URL filter statistic.

XML structure

```

<UFLT>
  <Statistic>
    <URIString>
      <TotalRequests></TotalRequests>
      <PermittedRequests></PermittedRequests>
      <DeniedRequests></DeniedRequests>
      <MatchedBlacklist></MatchedBlacklist>
      <MatchedWhitelist></MatchedWhitelist>
      <MatchedUDEFCategory></MatchedUDEFCategory>
      <MatchedPDEFCategory></MatchedPDEFCategory>
      <MatchedCacheAction></MatchedCacheAction>
    </URIString>
  </Statistic>
</UFLT>

```

```

    <MatchedDefaultAction></MatchedDefaultAction>
    <PDEFURLNumbers></PDEFURLNumbers>
  </URLString>
</Statistic>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	Statistic
Table type	Single-instance table
Row name	URLString
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalRequests	Total HTTP Requests	N/A	Unsigned integer64	N/A
PermittedRequests	Total Permitted Requests	N/A	Unsigned integer64	N/A
DeniedRequests	Total Denied Requests	N/A	Unsigned integer64	N/A
MatchedBlacklist	Total Matched Blacklist	N/A	Unsigned integer64	N/A
MatchedWhitelist	Total Matched Whitelist	N/A	Unsigned integer64	N/A
MatchedUDEFCategory	Matched User-defined Category	N/A	Unsigned integer64	N/A
MatchedPDEFCategory	Matched Pre-defined Category	N/A	Unsigned integer64	N/A
MatchedPDEFCategory	Matched Pre-defined Category	N/A	Unsigned integer64	N/A
MatchedCacheAction	Matched Cache Action	N/A	Unsigned integer64	N/A
MatchedDefaultAction	Matched Default Action	N/A	Unsigned integer64	N/A
PDEFURLNumbers	Pre-defined URL Rule Numbers	N/A	Unsigned integer64	N/A

UFLT/BlackWhiteList

This table contains information about blacklist and whitelist.

XML structure

```
<UFLT>
  <BlackWhiteList>
    <PolicyRule>
      <PolicyName></PolicyName>
      <BlackOrWhite></BlackOrWhite>
      <RuleID></RuleID>
      <HostType></HostType>
      <HostName></HostName>
      <URIType></URIType>
      <URIStrng></URIStrng>
    </PolicyRule>
  </BlackWhiteList>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	BlackWhiteList
Table type	Multi-instance table
Row name	PolicyRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive Length: 1 to 31 characters	Case insensitive
BlackOrWhite	Blacklist or whitelist	Index	Enumeration: 1—Whitelist 2—Blacklist	N/A
RuleID	Rule ID	Index	Unsigned Integer: 1-65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			- Length: 3 to 224 characters If URI type is regex: - OctectString - Length: 3 to 224 characters	
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URI String	URI string	N/A	If URI type is text: - String, case-insensitive - Length: 3 to 245 characters If URI type is regex: - OctectString - Length: 3 to 245 characters	N/A

UFLT/CacheConfig

This table contains information about the cache configuration.

XML structure

```

<UFLT>
  <CacheConfig>
    <DomainName></DomainName>
  </CacheConfig>
</UFLT>

```

Table description

Item	Description
Feature name	UrlFilter
Table name	CacheConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case-insensitive Length: 1 to 255 characters	N/A

UFLT/SignatureAutoUpgrading

This table contains information about auto upgrading of URL filter signatures.

XML structure

```
<UFLT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	SignatureAutoUpgrading
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: - true - false	Default is false
StartTime	Time when the system performs auto upgrading	N/A	Time. Format: HH:MM:SS	Default: 02:00:00.
Type	Type of the system auto upgrading	N/A	Enumeration: 0—Week 1—Periodic	Default: 1.
Day	Days	N/A	Unsigned integer Value range: 0 to 6	When Type is 0 , the value range is 0 to 6. Otherwise, the value is invalid.

UFLT/UpdatePercentage

This table contains the information of the percent of upgrading.

XML structure

```
<UFLT>
  <UpdatePercentage>
    <Percentage></Percentage>
  </UpdatePercentage>
</UFLT>
```

Table description

Item	Description
Feature name	UrlFilter
Table name	UpdatePercentage
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	The percentage of updating	N/A	Unsigned integer Value range: 0~100	When the value range is 0 to 100, it means in upgrading, Otherwise, means error

UFLT/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<UFLT>
  <SignatureFileInfos>
    <FileInfo>
      <Version></Version>
      <FileName></FileName>
      <PublishedTime></PublishedTime>
      <Updates></Updates>
    </FileInfo>
  </SignatureFileInfos>
```

</UFLT>

Table description

Item	Description
Feature name	UFLT
Table name	SignatureFileInfos
Table type	Multi-instance table
Row name	FileInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	Version	Index	Enumeration: 1—current 2—last 3—factory	N/A
FileName	File Name	N/A	String: case-insensitive Length: 1 to 255 characters	N/A
PublishedTime	Published Time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
Updates	Update information	N/A	String: case-insensitive Length: 1 to 255 characters	N/A

UFLT/ActionInstance

This table contains URL filter action instance information.

XML structure

```
<UFLT>
  <ActionInstance>
    <InstanceConfig>
      <ActionType></ActionType>
      <InstanceName></InstanceName>
    </InstanceConfig>
  </ActionInstance>
</UFLT >
```


Table description

Item	Description
Feature name	IPS
Table name	ActionInstance
Table type	Multi -instance table
Row name	InstanceConfig
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionType	Action	Index	Enumeration: • 1—Logging • 2—Redirect • 3—Block	N/A
InstanceName	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

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Resource Summary for UFLT

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
Policies	/api/v1/UFLT/Policies	Y	Y	Y	Y
PolicyInProfile	/api/v1/UFLT/PolicyInProfile	Y	Y	Y	Y
PolicyFilter	/api/v1/UFLT/PolicyFilter	Y	Y	Y	Y
Categories	/api/v1/UFLT/Categories	Y	Y	Y	Y
RuleInCategory	/api/v1/UFLT/RuleInCategory	Y	Y	Y	Y
Statistic	/api/v1/UFLT/Statistic	Y	N	N	N
SignatureFileInfos	/api/v1/UFLT/SignatureFileInfos	Y	N	N	N
SignatureAutoUpgrading	/api/v1/UFLT/SignatureAutoUpgrading	Y	N	Y	N
UpdatePercentage	/api/v1/UFLT/UpdatePercentage	Y	N	N	N
ActionInstance	/api/v1/UFLT/ActionInstance	Y	Y	Y	Y
CacheConfig	/api/v1/UFLT/CacheConfig	Y	Y	N	Y
BlackWhiteList	/api/v1/UFLT/BlackWhiteList	Y	Y	Y	Y

UFLT

Policies

This table contains URL filter policy information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A
DefaultAction	Default rules action	N/A	Enumeration: 0—Permit 1—Drop 2—Reset 3—Redirect 4—Block	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DefaultActInstance	Default rules action Instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
DefaultActLoggingEnable	Default rules loggingEnable	N/A	Enumeration: 0—Disable 1—Enable	N/A
DefaultActLogging	Default rules logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
CloudQuery	Cloud querying	N/A	Enumeration: 1—Enable 2—Disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/Policies?index=PolicyName%3D1

JSON Response

200 OK

```
{
  "Policies":
  [{
    "PolicyName": "1",
    "DefaultAction": 0,
    "DefaultActInstance": "default",
    "DefaultActLoggingEnable": 1,
    "DefaultActLogging": "log",
    "CloudQuery": 1
  }]
}
```

Example 2: Add new Instance for resource table.

JSON Request

POST /api/v1/UFLT/Policies

```
{
  "Policies":
  [{
```

```

    "PolicyName": "2",
    "DefaultAction": 0,
    "DefaultActInstance": "default",
    "DefaultActLoggingEnable": 1,
    "DefaultActLogging": "log",
    "CloudQuery": 1
  }
}

```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/Policies?index=PolicyName%3D2

```

{
  "Policies":
  [{
    "PolicyName": "2",
    "DefaultAction": 1,
    "DefaultActInstance": "defau",
    "DefaultActLoggingEnable": 0,
    "DefaultActLogging": "logging",
    "CloudQuery": 2
  }
}

```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/UFLT/Policies?index=PolicyName%3D2

JSON Response

204 No Content

PolicyInProfile

This table contains information about a URL filter policy used by an APP profile.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Name of the profile	Index	String, case-insensitive Length: 1 to 63 characters	N/A
PolicyName	Name of the URL filter policy	N/A	String, case-insensitive Length: 1 to 31 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/PolicyInProfile?index=ProfileName%3D1

JSON Response

200 OK

```
{
  "PolicyInProfile":
  [{
    "ProfileName": "1",
    "PolicyName": "policy1"
  }]
}
```

Example 2: Add new instance to resource table.

JSON Request

POST /api/v1/UFLT/PolicyInProfile

```
{
  "PolicyOnProfile":
  [{
    "ProfileName": "2",
    "PolicyName": "policy2"
  }]
}
```

```
}
```

JSON Response

201 Created

Example 3: Change the value of PolicyName for the assigned instance.

JSON Request

PUT /api/v1/UFLT/PolicyInProfile?index=ProfileName%3D2

```
{
  "PolicyOnProfile":
  [{
    "ProfileName": "2",
    "PolicyName": "policy3"
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/UFLT/PolicyInProfile?index=ProfileName%3D2

JSON Response

204 No Content

PolicyFilter

This table contains information about URL filter category in a policy.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Name of the URL filter policy	Index	String, case-insensitive Length: 1 to 31 characters	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Action	Action type	N/A	Enumeration: • 0—Permit • 1—Drop • 2—Reset • 3—Redirect • 4—Block	N/A
Instance	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
LoggingEnable	Whether the logging is enabled or disabled	N/A	Enumeration: • 0—Disable • 1—Enable	N/A
Logging	Logging instance	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/PolicyFilter?index=PolicyName%3Dp1%3BCategoryName%3Dc1

JSON Response

200 OK

```
{
  "PolicyFilter":
  [{
    "PolicyName": "p1",
    "CategoryName": "c1",
    "Action": 1,
    "Instance": "para",
    "LoggingEnable": 1,
    "Logging": "log"
  }]
}
```

Example 2: Add new instance to resource table.

JSON Request

POST /api/v1/UFLT/PolicyFilter


```
{
  "PolicyFilter":
  [{
    "PolicyName": "p2",
    "CategoryName": "c1",
    "Action": 1,
    "Instance": "para",
    "LoggingEnable": 1,
    "Logging": "log"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/PolicyFilter?index=PolicyName%3Dp2%3BCategoryName%3c1

```
{
  "PolicyFilter":
  [{
    "PolicyName": "p2",
    "CategoryName": "c1",
    "Action": 2,
    "Instance": "reset",
    "LoggingEnable": 1,
    "Logging": "log1"
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/UFLT/PolicyFilter?index= PolicyName%3Dp2%3BCategoryName%3c1

JSON Response

204 No Content

Categories

This table contains information about the URL filter category.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name of the URL filter category	Index	String, case-insensitive Length: 1 to 63 characters	N/A
Critical	Critical	N/A	UnsignedShort	N/A
CategoryType	Category type	N/A	Enumeration: • 0—Pre-defined • 1—User-defined	N/A
Description	Description	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PreCategoryReferred	Referenced previous defined category	N/A	String, case-insensitive Length: 1 to 63 characters	N/A
PreCategoryID	Previous defined category ID	N/A	UnsignedShort	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/IPS/Categories?index=CategoryName%3Dc1

JSON Response

200 OK

```
{
  "Categories":
  [{
    "CategoryName": "c1",
    "Critical": 1234,
    "Description": "des",
    "CategoryType": 1,
    "PreCategoryReferred": "Pre-Arts",
    "PreCategoryID": 29
  }]
}
```

```
}
```

Example 2: Add new instance to resource table.

JSON Request

POST /api/v1/UFLT/Categories

```
{
  "Categories":
  [{
    "CategoryName":"c2",
    "Critical":1235,
    "Description":"des",
    "CategoryType":1,
    "PreCategoryReferred":"Pre-Arts",
    "PreCategoryID":29
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/Categories?index=CategoryName%3Dc2

```
{
  "Categories":
  [{
    "CategoryName":"c2",
    "Critical":1236,
    "Description":"desc",
    "CategoryType":1,
    "PreCategoryReferred":"Pre-Chat",
    "PreCategoryID":30
  }]
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/UFLT/Categories?index=CategoryName%3Dc2

JSON Response

204 No Content

RuleInCategory

This table contains the information of the URL filter rule in specify category..

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
CategoryName	Name	Index	String, case-insensitive Length: 1 to 63 characters	N/A
RuleID	RuleID	Index	Unsigned Integer Value range:1 to 65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: - String, case-insensitive - Length: 3 to 224 characters If host type is regex: - OctectString - Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URIString	URI string	N/A	If uri type is text: - String, case-insensitive - Length: 3 to 255 characters If uri type is regex: - OctectString - Length: 3 to 253 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/RuleInCategory?index=CategoryName%3Dc1%3BRuleID%3D1

JSON Response

200 OK

```
{
  "RuleInCategory":
  [{
    "CategoryName": "c1",
    "RuleID": 1,
    "HostType": 1,
    "HostName": "news.sohu.com",
    "URIType": 2,
    "URIString": "/upload/itoolbar/itoolbar"
  }]
}
```

Example 2: Add new instance to resource table.

JSON Request

POST /api/v1/UFLT/RuleInCategory

```
{
  "RuleInCategory":
  [{
    "CategoryName": "c2",
    "RuleID": 1,
    "HostType": 2,
    "HostName": "chinaso.com",
    "URIType": 2,
    "URIString": "/page/search.htm"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/RuleInCategory?index=CategoryName%3Dc2%3BRuleID%3D1

```
{
  "RuleInCategory":
  [{
```

```

    "CategoryName": "c2",
    "RuleID": 1,
    "HostType": 1,
    "HostName": "news.sohu.com",
    "URIType": 2,
    "URIString": "/upload/itoolbar/itoolbar"
  }
}

```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/UFLT/RuleInCategory?index=CategoryName%3Dc2%3BRuleID%3D1

JSON Response

204 No Content

Statistic

This table contains information about URL filter statistics.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
TotalRequests	Total HTTP requests	N/A	Unsigned integer64	N/A
PermittedRequests	Total permitted requests	N/A	Unsigned integer64	N/A
DeniedRequests	Total denied requests	N/A	Unsigned integer64	N/A
MatchedBlacklist	Total matched blacklist entries	N/A	Unsigned integer64	N/A
MatchedWhitelist	Total matched whitelist entries	N/A	Unsigned integer64	N/A
MatchedUDEFCategory	Matched user-defined category	N/A	Unsigned integer64	N/A
MatchedPDEFCategory	Matched pre-defined category	N/A	Unsigned integer64	N/A
MatchedCacheAction	Matched cache category action	N/A	Unsigned integer64	N/A
MatchedDefaultAction	Matched default action	N/A	Unsigned integer64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PDEFURLNumbers	Pre-defined URL rule numbers	N/A	Unsigned integer64	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/Statistic?index=

JSON Response

200 OK

```
{
  "Statistic":
  [{
    "TotalRequests ":200,
    "PermittedRequests":180,
    "DeniedRequests":20,
    "MatchedBlacklist":20,
    "MatchedWhitelist":80,
    "MatchedUDEFCategory ":40,
    "MatchedPDEFCategory ":30,
    "MatchedCacheAction":20,
    "MatchedDefaultAction":10,
    "PDEFURLNumbers":2000
  ]
}
```

SignatureFileInfos

This table contains the signature file information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	Version	Index	Enumeration: 1—current 2—last	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—factory	
FileName	File name	N/A	String, case-insensitive Length: 1 to 255 characters	N/A
PublishedTime	Published time	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	N/A
Updates	Update information	N/A	String, case-insensitive Length: 1 to 255 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/SignatureFileInfos?index=Version%3D1

JSON Response

200 OK

```
{
  "SignatureFileInfos":
  [{
    "FileStatus":1,
    "Version":"1.0.0",
    "PublishedTime":"1999-12-31T16:00:00",
    "Description":"1.0.0"
  }]
}
```

SignatureAutoUpgrading

This table contains information about auto upgrading of URL filter signatures.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Enabled	Enabled or disabled	N/A	Boolean: - true - false	Default: false.

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Time when the system performs auto upgrading	N/A	Time. Format: HH:MM:SS	Default: 02:00:00.
Type	Type of the system auto upgrading	N/A	Enumeration: 0—Week 1—Periodic	Default: 1.
Day	Days	N/A	Unsigned integer Value range: 0 to 6	When Type is 0, the value range is 0 to 6. Otherwise, the value is invalid

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/SignatureAutoUpgrading

JSON Response

200 OK

```
{
  "SignatureAutoUpgrading":
  [{
    "Enabled":true,
    "StartTime":"02:00:00",
    "Type":1,
    "Day":1
  }]
}
```

Example 2: Change the value for the assigned instance.

JSON Request

PUT /api/v1/UFLT/SignatureAutoUpgrading

```
{
  "SignatureAutoUpgrading":
  [{
    "Enabled":true,
    "StartTime":"03:00:00",
```

```
"Type":1,  
"Day":2  
}  
}
```

JSON Response

204 No Content

UpdatePercentage

This table contains information about the upgrading process.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Percentage	Process of the update	N/A	Unsigned integer Value range: 0 to 100	When the value range is 0 to 100, it means the upgrading is in process, Otherwise, it means error.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/UpdatePercentage

JSON Response

200 OK

```
{  
  "UpdatePercentage":  
    [{  
      "Percentage":100  
    }]  
}
```

ActionInstance

This table contains URL filter action instance information..

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ActionType	Action	Index	Enumeration: • 1—Logging • 2—Redirect • 3—Block	N/A
InstanceName	Instance name	N/A	String, case-insensitive Length: 1 to 63 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/ActionInstance?index=ActionType =%3D2

JSON Response

200 OK

```
{
  "ActionInstance":
  [{
    "ActionType":2,
    "InstanceName":"url_redirect_default_parameter"
  }]
}
```

Example 2: Add new instance to resource table.

JSON Request

POST /api/v1/UFLT/ActionInstance

```
{
  "ActionInstance":
  [{
    "ActionType":3,
    "InstanceName":"url_block_default_parameter"
  }]
}
```

```
    }}  
  }
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/ActionInstance?index=ActionType =%3D2

```
{  
  "ActionInstance":  
  [{  
    "ActionType":3,  
    "InstanceName":"block"  
  }]  
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/ UFLT/ActionInstance?index=ActionType =%3D2

JSON Response

204 No Content

CacheConfig

This table contains information about cache configuration.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name	N/A	String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 255 characters	

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/UFLT/CacheConfig?index=

JSON Response

200 OK

```
{
  "CacheConfig":
    [{
      "DomainName":"111.7.23.23"
    }]
}
```

Example 2: Add new instance for resource table.

JSON Request

POST /api/v1/UFLT/CacheConfig

```
{
  "CacheConfig":
    [{
      "DomainName":"111.7.23.23"
    }]
}
```

JSON Response

201 Created

Example 3: Delete the assigned instance from resource table.

JSON Request

DELETE /api/v1/ UFLT/CacheConfig

JSON Response

204 No Content

BlackWhiteList

This table contains information about blacklist and whitelist.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name	Index	String, case-insensitive Length: 1 to 31 characters	Case insensitive
BlackOrWhite	Blacklist or whitelist	Index	Enumeration: 1—White 2—Black	N/A
RuleID	RuleID	Index	Unsigned Integer: 1 to 65535	N/A
HostType	Host type	N/A	Enumeration: 1—Text 2—Regex	N/A
HostName	Host name	N/A	If host type is text: String, case-insensitive Length: 3 to 224 characters If host type is regex: OctectString Length: 3 to 224 characters	N/A
URIType	URI type	N/A	Enumeration: 1—Text 2—Regex	N/A
URIString	URI string	N/A	If uri type is text: - String, case-insensitive - Length: 3 to 245 characters If uri type is regex: - OctectString - Length: 3 to 245 characters	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET/api/v1/UFLT/BlackWhiteList?index=PolicyName%3Dp1%3BBlackOrWhite%3D1%3BRuleID%3D1

JSON Response

200 OK

```
{
  "BlackWhiteList":
  [{
    "PolicyName": "p1",
    "BlackOrWhite": 1,
    "RuleID": 1,
    "HostType": 1,
    "HostName": "news.sohu.com",
    "URIType": 2,
    "URIString": "/upload/itoolbar/itoolbar"
  }]
}
```

Example 2: Add new instance for resource table.

JSON Request

POST /api/v1/UFLT/BlackWhiteList

```
{
  "BlackWhiteList":
  [{
    "PolicyName": "p2",
    "BlackOrWhite": 1,
    "RuleID": 1,
    "HostType": 2,
    "HostName": "chinaso.com",
    "URIType": 2,
    "URIString": "/page/search.htm"
  }]
}
```

JSON Response

201 Created

Example 3: Change the value of Description for the assigned instance.

JSON Request

PUT /api/v1/UFLT/BlackWhiteList?index=PolicyName%3Dp2%3BBlackOrWhite%3D1%3BRuleID%3D1

```
{
```

```
"RuleInCategory":  
[  
  {  
    "PolicyName": "p2",  
    "BlackOrWhite": 1,  
    "RuleID": 1,  
    "HostType": 1,  
    "HostName": "news.sohu.com",  
    "URIType": 2,  
    "URIString": "/upload/itoolbar/itoolbar"  
  }  
]
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource table.

JSON Request

DELETE/api/v1/UFLT/BlackWhiteList?index=PolicyName%3Dp2%3BBlackOrWhite%3D1%3BRuleID%3D1

JSON Response

204 No Content

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UserAccounts

UserAccounts/ImportGuestAccount

Import guest user accounts.

XML structure

```
<UserAccounts>
  <ImportGuestAccount>
    <Url></Url>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportGuestAccount>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ImportGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to import guest account information	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export guest template.

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityDateTime	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
AutoCreateGroup	Whether to create groups automatically	N/A	Boolean: - true - false	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: - true - false	Default: false
StartLine	Start line to import users	N/A	Unsigned integer. Value range: 1 to 1048576.	Default: 1

UserAccounts/ExportGuestAccount

Export guest accounts.

XML structure

```

<UserAccounts>
  <ExportGuestAccount>
    <Url></Url>
  </ExportGuestAccount>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export guest accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/GenerateGuestAccount

Create guest accounts in batches.

XML structure

```
<UserAccounts>
  <GenerateGuestAccount>
    <NamePrefix></NamePrefix>
    <PasswordPrefix></PasswordPrefix>
    <NumberSuffix></NumberSuffix>
    <Count></Count>
    <GroupName></GroupName>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
  </GenerateGuestAccount>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	GenerateGuestAccount
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
NamePrefix	Prefix of the guest account name	Column	String. Length: 1 to 45 characters.	The account name cannot be a , al , or all , and cannot include a domain name or \ / : * ? < > @, either.
PasswordPrefix	Password prefix	N/A	String. Length: 1 to 53 characters.	N/A
NumberSuffix	Numbering suffix	N/A	String. Length: 1 to 10 characters.	N/A
count	Number of generated guest accounts	N/A	Unsigned integer. Value range: 1 to 255.	N/A
GroupName	Name of the group the guest belongs to	N/A	String. Length: 1 to 32 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/ApproveGuest

Examine and approve guest accounts.

XML structure

```

<UserAccounts>
  <ApproveGuest>
    <Name></Name>
    <GroupName></GroupName>
    <SponsorFullName></SponsorFullName>
    <SponsorDepartment></SponsorDepartment>
    <SponsorEmail></SponsorEmail>
    <GuestDescription></GuestDescription>
    <ValidityDateTime>
      <StartValidityDateTime></StartValidityDateTime>
      <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
  </ApproveGuest>
</UserAccounts>

```

```

    </ApproveGuest>
  </UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	ApproveGuest
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Guest account name	N/A	String. Length: 1 to 55 characters.	The account name cannot be a , al , or all , and cannot include a domain name or \ / : * ? < > @, either.
GroupName	Name of the group the guest belongs to	N/A	Length: 1 to 32 characters.	N/A
SponsorFullName	Name of the receptionist	N/A	String. Length: 1 to 255 characters.	N/A
SponsorDepartment	Department of the receptionist	N/A	String. Length: 1 to 127 characters.	N/A
SponsorEmail	Email address of the receptionist	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
GuestDescription	Description of the guest	N/A	String. Length: 1 to 255 characters.	N/A
ValidityDateTime	Guest validity time period	Data structure	Members include: - StartValidityDateTime Pad - EndValidtyDateTime	N/A
StartValidtyDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidtyDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/ExportGuestTemplet

Template for exporting guest accounts.

XML structure

```
<UserAccounts>
  <ExportGuestTemplet>
    <Url></Url>
  </ExportGuestTemplet>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportTemplet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export guest accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/ImportNetworkUser

Import network user accounts, excluding guest accounts.

XML structure

```
<UserAccounts>
  <ImportNetworkUser>
    <FileName></FileName>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportNetworkUser>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ImportNetworkUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to import user account information	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export guest template.
AutoCreateGroup	Whether to create groups automatically	N/A	Boolean: - true - false	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: - true - false	Default: false
StartLine	Start line to import users	N/A	Unsigned integer. Value range: 1 to 1048576.	Default: 1

UserAccounts/ExportNetworkUser

Export network user accounts, excluding guest accounts.

XML structure

```
<UserAccounts>
  <ExportNetworkUser>
    <FileName></FileName>
    <GroupName></GroupName>
    <UserName></UserName>
  </ExportNetworkUser>
</UserAccounts>
```


Table description

Item	Description
Feature name	UserAccounts
Table name	ExportNetworkUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export user accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.
GroupName	Name of the group the user belongs to	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	User account name	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be a , al , or all , and cannot include a domain name or \ / : * ? < > @, either.

UserAccounts/ExportTemplet

Template for exporting network user accounts.

XML structure

```
<UserAccounts>
  <ExportTemplet>
    <FileName></FileName>
  </ExportTemplet>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ExportTemplet
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export network user accounts to	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

UserAccounts/OldPasswordCheck

Template for checking the old password of a user.

XML structure

```

<UserAccounts>
  <OldPasswordCheck>
    <UserName></UserName>
    <Password></Password>
  </OldPasswordCheck>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	OldPasswordCheck
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of <i>localusername@domain</i> or <i>localusername</i>. Length: 1 to 311 characters. <i>localusername</i>—Local user name, case-sensitive string of 1 to 55 characters. <i>@</i>—Domain name delimiter. <i>domain</i>—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @
Password	Old password	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

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UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AcINumber></AcINumber>
        <CallbackNumber></CallbackNumber>
        <FTPHomeDir></FTPHomeDir>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <SecondaryDNSServer></SecondaryDNSServer>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
      </AuthorizationInfo>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
    </Group>
  </UserGroups>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name	Index	String. Length: 0 to 32 characters.	The system has a predefined group named system .
AuthorizationInfo	Authorization information	Data structure	Members include: • AcINumber • CallbackNumber • FTPHomeDir • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • IpPool • Ipv6Pool	N/A
AcINumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	By default, the user can access the root directory of the device, which varies by device model.
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
SecondaryDNS Server	Secondary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
URL	URL information	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is valid only when the Ipv6PrefixLength column is configured at the same time.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	This column is valid only when the Ipv6Address column is configured at the same time.

UserAccounts/Management/Accounts

Management user information table.

XML structure

```

<UserAccounts>
  <Management>
    <Accounts>
      <Account>
        <Name></Name>
        <Password></Password>
        <GroupName></GroupName>
        <FTP></FTP>
        <HTTP></HTTP>
        <HTTPS></HTTPS>
        <PAD></PAD>
        <SSH></SSH>
        <TELNET></TELNET>
        <Terminal></Terminal>
      </Account>
    </Accounts>
  </Management>
</UserAccounts>

```

```

        <AccessLimit></AccessLimit>
        <FTPHomeDir></FTPHomeDir>
    </Account>
</Accounts>
</Management>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
Password	Password of the local user	N/A	In non-FIPS mode, the password is a plaintext string of 1 to 63 characters. In FIPS mode, the password is a plaintext string of 15 to 63 characters. The string must contain digits, uppercase letters, lowercase letters, and special characters.	N/A
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is system .
FTP	Whether the FTP service is available to the local user	N/A	Boolean: - true - false	The default is false.
HTTP	Whether the HTTP service is available to the local user	N/A	Boolean: - true - false	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
HTTPS	Whether the HTTPS service is available to the local user	N/A	Boolean: - true - false	The default is false.
PAD	Whether the PAD service is available to the local user	N/A	Boolean: - true - false	The default is false.
SSH	Whether the SSH service is available to the local user	N/A	Boolean: - true - false	The default is false.
TELNET	Whether the telnet service is available to the local user	N/A	Boolean: - true - false	The default is false.
Terminal	Whether the Terminal service is available to the local user	N/A	Boolean: - true - false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	The directory must already exist. By default, the user can access the root directory of the device, which varies by device model.

UserAccounts/Management/UserRoles

Management user role information table.

XML structure

```

<UserAccounts>
  <Management>
    <UserRoles>
      <UserRole>
        <UserName></UserName>
        <RoleName></RoleName>
      </UserRole>
    </UserRoles>
  </Management>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserRoles
Table type	Multi-instance table
Row name	UserRole
Restrictions	UserName must be obtained from the UserAccounts/Management/Accounts table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
RoleName	User role name	Index	String. Length: 1 to 63 characters.	N/A

UserAccounts/Network/Accounts

Network user information table.

XML structure

```
<UserAccounts>
  <Network>
    <Accounts>
      <Account>
        <Name></Name>
        <Password></Password>
        <GroupName></GroupName>
        <ADVPN></ADVPN>
        <IPoE></IPoE>
        <LanAccess></LanAccess>
        <Portal></Portal>
        <PPP></PPP>
        <AccessLimit></AccessLimit>
        <AuthorizationInfo>
          <AcINumber></AcINumber>
```

```

    <CallbackNumber></CallbackNumber>
    <IdleTimeout></IdleTimeout>
    <PrimaryDNSServer></PrimaryDNSServer>
    <SecondaryDNSServer></SecondaryDNSServer>
    <URL></URL>
    <UserProfile></UserProfile>
    <VLANID></VLANID>
    <VRF></VRF>
    <Ipv4Address></Ipv4Address>
    <Ipv6Address></Ipv6Address>
    <IpPool></IpPool>
    <Ipv6Pool></Ipv6Pool>
    <SSLVPNPolicy></SSLVPNPolicy>
  </AuthorizationInfo>
  <AuthorizationIpv6PrefixInfo>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
  </AuthorizationIpv6PrefixInfo>
  <BindingInfo>
    <CallNumber></CallNumber>
    <Interface></Interface>
    <Ipv4Address></Ipv4Address>
    <MacAddress></MacAddress>
    <VLANID></VLANID>
  </BindingInfo>
  <ValidityDateTime>
    <StartValidityDateTime></StartValidityDateTime>
    <EndValidityDateTime></EndValidityDateTime>
  </ValidityDateTime>
  <SessTimeout></SessTimeout>
</Account>
</Accounts>
</Network>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
Password	Password of the local user	N/A	In non-FIPS mode, the password is a plaintext string of 1 to 63 characters. In FIPS mode, the password is a plaintext string of 15 to 63 characters. The string must contain digits, uppercase letters, lowercase letters, and special characters.	The setting must be a plaintext password.
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is system .
ADVPN	Whether the ADVPN service is available to the local user	N/A	Boolean: - true - false	The default is false.
IPoE	Whether the IPoE service is available to the local user	N/A	Boolean: - true - false	The default is false.
LanAccess	Whether the LAN access service is available to the local user	N/A	Boolean: - true - false	The default is false.
Portal	Whether the portal service is available to the local user	N/A	Boolean: - true - false	The default is false.
PPP	Whether the PPP service is available to the local user	N/A	Boolean: - true - false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber • CallbackNumber • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • Ipv4Address • Ipv6Address • IpPool • Ipv6Pool • SSLVPNPolicy	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120, in minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
SecondaryDNS Server	Secondary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
URL	URL information of the local user	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
Ipv6Address	IPv6 address of the local user	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1. This column is valid only when the Ipv6PrefixLength column is configured at the same time.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	This column is valid only when the Ipv6Address column is configured at the same time.
BindingInfo	Binding attributes of the local user	Data structure	Members include: - CallNumber - Interface - Ipv4Address - MacAddress - VLANID	N/A
CallNumber	Calling number of the local user	N/A	String. Length: 1 to 64 characters.	N/A
Interface	Interface of the local user	N/A	String. Length: 1 to 47 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
MacAddress	MAC address of the local user	N/A	String. Length: 17 characters.	For example, FF-FF-FF-FF-FF-FF.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityDateTime	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/Guest/Accounts

Table of network access guest information.

XML structure

```

<UserAccounts>
  <Guest>
    <Accounts>
      <Account>
        <WaitApproval></WaitApproval>
        <Name></Name>
        <Password></Password>
        <GroupName></GroupName>
        <FullName></FullName>
        <Phone></Phone>
        <Email></Email>
        <Company></Company>
        <Description></Description>
        <SponsorFullName></SponsorFullName>
        <SponsorEmail></SponsorEmail>
        <SponsorDepartment></SponsorDepartment>
        <ValidityDateTime>
          <StartValidityDateTime></StartValidityDateTime>
          <EndValidityDateTime></EndValidityDateTime>
        </ValidityDateTime>
      </Account>
    </Accounts>
  </Guest>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	GroupName must be obtained from the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WaitApproval	Whether the guest is waiting for approval	Index	Boolean: - true - false	N/A
Name	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
Password	User password	N/A	String. Length: 1 to 63 characters.	The set operation sends plaintext strings.
GroupName	User group to which the guest belongs	N/A	String. Length: 1 to 32 characters.	The default is system .
FullName	Guest name	N/A	String. Length: 1 to 255 characters.	N/A
Phone	Guest phone	N/A	String. Length: 1 to 32 characters.	N/A
Email	Guest email address	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
Company	Guest company	N/A	String. Length: 1 to 255 characters.	N/A
Description	Guest description	N/A	String. Length: 1 to 255 characters.	N/A
SponsorFullName	Sponsor name	N/A	String. Length: 1 to 255 characters.	N/A
SponsorEmail	Sponsor email address	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).

Column name	Column description	Column type	Data type and restrictions	Remarks
SponsorDepartment	Sponsor department	N/A	String. Length: 1 to 127 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/GuestConfigure

Global control of guest accounts table.

XML structure

```

<UserAccounts>
  <GuestConfigure>
    <AutoDelete></AutoDelete>
    <EmailFormat>
      <GuestSubject></GuestSubject>
      <GuestManagerSubject></GuestManagerSubject>
      <GuestSponsorSubject></GuestSponsorSubject>
      <GuestSponsorBody></GuestSponsorBody>
    </EmailFormat>
    <GuestManagerEmail></GuestManagerEmail>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <WaitApprovalTime></WaitApprovalTime>
  </GuestConfigure>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	GuestConfigure
Table type	Single-instance table
Row name	None
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoDelete	Whether to enable automatic deletion	N/A	Boolean: - true - false	The default is false.
EmailFormat	Email address format	Data structure	Members include: - GuestSubject - GuestBody - GuestManagerSubject - GuestManagerBody - GuestSponsorSubject - GuestSponsorBody	N/A
GuestSubject	Email subject to send to the guest	N/A	String. Length: 1 to 127 characters.	N/A
GuestBody	Email body to send to the guest	N/A	String. Length: 1 to 255 characters.	N/A
GuestManagerSubject	Email subject to send to the guest manager	N/A	String. Length: 1 to 127 characters.	N/A
GuestManagerBody	Email body to send to the guest manager	N/A	String. Length: 1 to 255 characters.	N/A
GuestSponsorSubject	Email subject to send to the guest sponsor	N/A	String. Length: 1 to 127 characters.	N/A
GuestSponsorBody	Email body to send to the guest sponsor	N/A	String. Length: 1 to 255 characters.	N/A
GuestManagerEmail	Email address of the guest manager	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
EmailSender	Email address of the addresser	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtpServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
WaitApprovalTime	The maximum waiting time for account approval	N/A	Unsigned integer. Value range: 1 to 720, in hours.	The default is 24 hours.

UserAccounts/Identity/Users

Table of static user accounts for user identification.

XML structure

```
<UserAccounts>
  <Identity>
    <Users>
      <User>
        <Name></Name>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
      </User>
    </Users>
  </Identity>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
IpType	IP address type	Index	Enumeration: 0—IPv4 1—IPv6	N/A
IpAddress	IP address of the user	Index	IPv4 or IPv6 address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MAC address of the user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.

UserAccounts/Network/IdentityGroups

Table of identity groups associated with a user.

XML structure

```

<UserAccounts>
  <Network>
    <IdentityGroups>
      <IdentityGroup>
        <UserName></UserName>
        <GroupName></GroupName>
      </IdentityGroup>
    </IdentityGroups>
  </Network>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Group name	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

UserAccounts/UserGroup/IdentityMembers

Table of member users in an identity group.

XML structure

```

<UserAccounts>
  <UserGroup>
    <IdentityMembers>
      <IdentityMember>
        <GroupName></GroupName>
        <UserName></UserName>
      </IdentityMember>
    </IdentityMembers>
  </UserGroup>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityMembers
Table type	Multi-instance table
Row name	IdentityMember
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
UserName	Name of the member user	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @

UserAccounts/UserGroup/IdentityGroups

Table of member groups in an identity group.

XML structure

```
<UserAccounts>
  <UserGroup>
    <IdentityGroups>
      <IdentityGroup>
        <GroupName></GroupName>
        <IdentityGroup></IdentityGroup>
      </IdentityGroup>
    </IdentityGroups>
  </UserGroup>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	The GroupName value must be included in the UserAccounts/UserGroups table.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
IdentityGroup	Name of the member group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

UserAccounts/IdentityEnable

Enable or disable the user identification feature.

XML structure

```
<UserAccounts>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the user identification feature	N/A	Boolean: - true - false	The default is false.

UserAccounts/ChangePasswords

Change user passwords.

XML structure

```
<UserAccounts>
  <ChangePasswords>
    <ChangePassword>
      <UserName></UserName>
      <Password></Password>
    </ChangePassword>
  </ChangePasswords>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangePasswords
Table type	Multi-instance table
Row name	ChangePassword
Restrictions	The UserName value must be included in the UserAccounts/ChangePasswords table.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of <i>localusername@domain</i> or <i>localusername</i> . Length: 1 to 311 characters. <i>localusername</i>—Local user name, case-sensitive string of 1 to 55 characters. <i>@</i>—Domain name delimiter. <i>domain</i>—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @
Password	New password	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

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UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AcINumber></AcINumber>
        <CallbackNumber></CallbackNumber>
        <FTPHomeDir></FTPHomeDir>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <SecondaryDNSServer></SecondaryDNSServer>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
      </AuthorizationInfo>
      <AuthorizationIpv6PrefixInfo>
        <Ipv6Address></Ipv6Address>
        <Ipv6PrefixLength></Ipv6PrefixLength>
      </AuthorizationIpv6PrefixInfo>
    </Group>
  </UserGroups>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserGroups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name	Index	String. Length: 0 to 32 characters.	N/A
AuthorizationInfo	Authorization information	Data structure	Members include: • AclNumber • CallbackNumber • FTPHomeDir • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • IpPool • Ipv6Pool	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A
FTPHomeDir	FTP home directory	N/A	String. Length: 1 to 255 characters.	N/A
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120 minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
SecondaryDNS Server	Secondary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
URL	URL information	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::.
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A

UserAccounts/Management/Accounts

Management user information table.

XML structure

```

<UserAccounts>
  <Management>
    <Accounts>
      <Account>
        <Name></Name>
        <UID></UID>
        <GroupName></GroupName>
        <FTP></FTP>
        <HTTP></HTTP>
        <HTTPS></HTTPS>
        <PAD></PAD>
        <SSH></SSH>
        <TELNET></TELNET>
        <Terminal></Terminal>
        <AccessLimit></AccessLimit>
        <CurrentAccessNum></CurrentAccessNum>
        <FTPHomeDir></FTPHomeDir>
      </Account>
    </Accounts>
  
```

</Management>
</UserAccounts>

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
UID	Local user ID	N/A	Unsigned integer. Value range: 1001 to $2^{32} - 1$.	N/A
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is system .
FTP	Whether the FTP service is available to the local user	N/A	Boolean: - true - false	The default is false.
HTTP	Whether the HTTP service is available to the local user	N/A	Boolean: - true - false	The default is false.
HTTPS	Whether the HTTPS service is available to the local user	N/A	Boolean: - true - false	The default is false.
PAD	Whether the PAD service is available to the local user	N/A	Boolean: - true - false	The default is false.
SSH	Whether the SSH service is available to the local user	N/A	Boolean: - true - false	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
TELNET	Whether the telnet service is available to the local user	N/A	Boolean: - true - false	The default is false.
Terminal	Whether the Terminal service is available to the local user	N/A	Boolean: - true - false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
CurrentAccess Num	Current number of online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
FTPHomeDir	FTP home directory of the local user	N/A	String. Length: 1 to 255 characters.	The directory must already exist. By default, the user can access the root directory of the device, which varies by device model.

UserAccounts/Management/UserRoles

Management user role information table.

XML structure

```

<UserAccounts>
  <Management>
    <UserRoles>
      <UserRole>
        <UserName></UserName>
        <RoleName></RoleName>
      </UserRole>
    </UserRoles>
  </Management>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	UserRoles
Table type	Multi-instance table

Item	Description
Row name	UserRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local user name	Index	String. Length: 1 to 55 characters.	N/A
RoleName	User role name	Index	String. Length: 1 to 63 characters.	N/A

UserAccounts/Network/Accounts

Network user information table.

XML structure

```

<UserAccounts>
  <Network>
    <Accounts>
      <Account>
        <Name></Name>
        <UID></UID>
        <GroupName></GroupName>
        <ADVPN></ADVPN>
        <IPoE></IPoE>
        <LanAccess></LanAccess>
        <Portal></Portal>
        <PPP></PPP>
        <AccessLimit></AccessLimit>
        <CurrentAccessNum></CurrentAccessNum>
        <AuthorizationInfo>
          <AclNumber></AclNumber>
          <CallbackNumber></CallbackNumber>
          <IdleTimeout></IdleTimeout>
          <PrimaryDNSServer></PrimaryDNSServer>
          <SecondaryDNSServer></SecondaryDNSServer>
          <URL></URL>
          <UserProfile></UserProfile>
          <VLANID></VLANID>
          <VRF></VRF>
          <Ipv4Address></Ipv4Address>
          <Ipv6Address></Ipv6Address>
        </AuthorizationInfo>
      </Account>
    </Accounts>
  </Network>
</UserAccounts>

```



```

<IpPool></IpPool>
  <Ipv6Pool></Ipv6Pool>
  <SSLVPNPolicy></SSLVPNPolicy>
</AuthorizationInfo>
<AuthorizationIpv6PrefixInfo>
  <Ipv6Address></Ipv6Address>
  <Ipv6PrefixLength></Ipv6PrefixLength>
</AuthorizationIpv6PrefixInfo>
<BindingInfo>
  <CallNumber></CallNumber>
  <Interface></Interface>
  <Ipv4Address></Ipv4Address>
  <MacAddress></MacAddress>
  <VLANID></VLANID>
</BindingInfo>
<SessTimeout></SessTimeout>
<ValidityDateTime>
  <StartValidityDateTime></StartValidityDateTime>
  <EndValidityDateTime></EndValidityDateTime>
</ValidityDateTime>
</Account>
</Accounts>
</Network>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Network user name	Index	String. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
UID	Network user ID	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	User group to which the local user belongs	N/A	String. Length: 1 to 32 characters.	The default is system .
ADVPN	Whether the ADVPN service is available to the local user	N/A	Boolean: - true - false	The default is false.
IPoE	Whether the IPoE service is available to the local user	N/A	Boolean: - true - false	The default is false.
LanAccess	Whether the LAN access service is available to the local user	N/A	Boolean: - true - false	The default is false.
Portal	Whether the portal service is available to the local user	N/A	Boolean: - true - false	The default is false.
PPP	Whether the PPP service is available to the local user	N/A	Boolean: - true - false	The default is false.
AccessLimit	The maximum number of concurrent online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
CurrentAccess Num	Current number of online users	N/A	Unsigned integer. Value range: 1 to 1024.	N/A
AuthorizationInfo	Authorization information of the local user	Data structure	Members include: - AclNumber - CallbackNumber - IdleTimeout - PrimaryDNSServer - SecondaryDNSServer - URL - UserProfile - VLANID - VRF - Ipv4Address - Ipv6Address - IpPool - Ipv6Pool - SSLVPNPolicy	N/A
AclNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 5999.	N/A
CallbackNumber	Callback number	N/A	String. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IdleTimeout	Idle time	N/A	Unsigned integer. Value range: 1 to 120 minutes.	N/A
PrimaryDNSServer	Primary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
SecondaryDNS Server	Secondary DNS server	N/A	General IP address structure, which does not distinguish between IPv4 and IPv6 addresses.	N/A
URL	URL information of the local user	N/A	String. Length: 1 to 255 characters.	N/A
UserProfile	Name of the user profile	N/A	String. Length: 1 to 31 characters.	The name can contain only letters, digits, and underscores, and must begin with a letter.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
VRF	Name of the VPN instance accessible to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of the local user	N/A	String in dotted decimal notation.	For example, 1.1.1.1.
Ipv6Address	IPv6 address of the local user	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::1:1.
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 31 characters.	N/A
Ipv6Pool	Name of the IPv6 address pool available to the local user	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolicy	Name of the SSL VPN policy group assigned to the local user	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: - Ipv6Address - Ipv6PrefixLength	N/A
Ipv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	For example, 2003:10::
Ipv6PrefixLength	IPv6 address prefix length	N/A	Unsigned integer. Value range: 1 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BindingInfo	Binding attributes of the local user	Data structure	Members include: - CallNumber - Interface - Ipv4Address - MacAddress - VLANID	N/A
CallNumber	Calling number of the local user	N/A	String. Length: 1 to 64 characters.	N/A
Interface	Interface of the local user	N/A	String. Length: 1 to 47 characters.	N/A
Ipv4Address	IP address of the local user	N/A	String in the dotted decimal notation.	IPv4 example: 1.1.1.1.
MacAddress	MAC address of the local user	N/A	String. Length: 17 characters.	For example, FF-FF-FF-FF-FF-FF.
VLANID	VLAN ID assigned to the local user	N/A	Unsigned integer. Value range: 1 to 4094.	N/A
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
ValidityDateTim e	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDat eTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDate Time	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/PasswordLimit

Password limit of the local user module.

XML structure

```

<UserAccounts>
  <PasswordLimit>
    <MinLen></MinLen>
    <MaxLen></MaxLen>
    <MinTypeNum></MinTypeNum>
  </PasswordLimit>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	PasswordLimit
Table type	Single-instance table
Row name	UserRole
Restrictions	- The configuration takes effect on the following items: - UserAccounts/Management/Accounts table <Password></Password> - UserAccounts/Network/Accounts table <Password></Password> - Data restrictions acquired in FIPS mode are different from the data restrictions acquired in non-FIPS mode.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinLen	The minimum length of a password	N/A	Unsigned integer.	N/A
MaxLen	The maximum length of a password	N/A	Unsigned integer.	N/A
MinTypeNum	The minimum number of character types that a password must contain	N/A	Unsigned integer.	Character types include digits, uppercase letters, lowercase letters, and special characters. For example, if the value is set to 3, the password string must include three or more character types.

UserAccounts/Guest/Accounts

Table of network access guest information.

XML structure

```
<UserAccounts>
  <Guest>
    <Accounts>
      <Account>
        <WaitApproval></WaitApproval>
        <Name></Name>
```

```

    <Password></Password>
    <GroupName></GroupName>
    <FullName></FullName>
    <Phone></Phone>
    <Email></Email>
    <Company></Company>
    <Description></Description>
    <SponsorFullName></SponsorFullName>
    <SponsorEmail></SponsorEmail>
    <SponsorDepartment></SponsorDepartment>
    <ValidityDateTime>
        <StartValidityDateTime></StartValidityDateTime>
        <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
</Account>
</Accounts>
</Guest>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Accounts
Table type	Multi-instance table
Row name	Account
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WaitApproval	Whether the guest is waiting for approval	Index	Boolean: - true - false	N/A
Name	User name	Index	String. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
Password	User password	N/A	String. Length: 1 to 63 characters.	The set operation sends plaintext strings.
GroupName	User group to which the guest belongs	N/A	String. Length: 1 to 32 characters.	The default setting is system .

Column name	Column description	Column type	Data type and restrictions	Remarks
FullName	Guest name	N/A	String. Length: 1 to 255 characters.	N/A
Phone	Guest phone	N/A	String. Length: 1 to 32 characters.	N/A
Email	Guest phone	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
Company	Guest company	N/A	String. Length: 1 to 255 characters.	N/A
Description	Guest description	N/A	String. Length: 1 to 255 characters.	N/A
SponsorFullName	Sponsor name	N/A	String. Length: 1 to 255 characters.	N/A
SponsorEmail	Sponsor Email	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SponsorDepartment	Sponsor department	N/A	String. Length: 1 to 127 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: - StartValidityDateTime - EndValidityDateTime	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
EndValidityDateTime	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A

UserAccounts/GuestConfigure

Global control of guest accounts table.

XML structure

```

<UserAccounts>
  <GuestConfigure>
    <AutoDelete></AutoDelete>
    <EmailFormat>
      <GuestSubject></GuestSubject>
      <GuestBody></GuestBody>
      <GuestManagerSubject></GuestManagerSubject>
      <GuestManagerBody></GuestManagerBody>
      <GuestSponsorSubject></GuestSponsorSubject>
      <GuestSponsorBody></GuestSponsorBody>
    
```

```

    <GuestManagerEmail></GuestManagerEmail>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <WaitApprovalTime></WaitApprovalTime>
  </GuestConfigure>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	GuestConfigure
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoDelete	Whether to enable automatic deletion	Column	Boolean: - true - false	The default is false.
EmailFormat	Email address format	Data structure	Members include: - GuestSubject - GuestBody - GuestManagerSubject - GuestManagerBody - GuestSponsorSubject - GuestSponsorBody	N/A
GuestSubject	Email subject to send to the guest	N/A	String. Length: 1 to 127 characters.	N/A
GuestBody	Email body to send to the guest	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Subject	Email subject to send to the guest manager	N/A	String. Length: 1 to 127 characters.	N/A
GuestManager Body	Email body to send to the guest manager	N/A	String. Length: 1 to 255 characters.	N/A
GuestSponsorSubject	Email subject to send to the guest sponsor	N/A	String. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GuestSponsorBody	Email body to send to the guest sponsor	N/A	String. Length: 1 to 255 characters.	N/A
GuestManagerEmail	Email address of the guest manager	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
EmailSender	Email address of the addresser	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).
SmtptServer	URL of the SMTP server	N/A	String. Length: 1 to 255 characters.	N/A
WaitApprovalTime	The maximum waiting time for account approval	N/A	Unsigned integer. Value range: 1 to 720, in hours.	The default is 24 hours.

UserAccounts/Identity/Users

Table of static user accounts for user identification.

XML structure

```

<UserAccounts>
  <Identity>
    <Users>
      <User>
        <Name></Name>
        <IpType></IpType>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
      </User>
    </Users>
  </Identity>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	N/A

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
IpType	IP address family	Index	Enumeration: 0—IPv4 1—IPv6	N/A
IpAddress	The IP address of user	Index	IPv4 or IPv6 address.	N/A
MacAddress	The MAC address of user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.

UserAccounts/Network/IdentityGroups

Table of identity groups associated with a user.

XML structure

```

<UserAccounts>
  <Network>
    <IdentityGroups>
      <IdentityGroup>
        <UserName></UserName>
        <GroupName></GroupName>
      </IdentityGroup>
    </IdentityGroups>
  </Network>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table

Item	Description
Row name	IdentityGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @
GroupName	Group name	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

UserAccounts/UserGroup/IdentityMembers

Table of member users in an identity group.

XML structure

```

<UserAccounts>
  <UserGroup>
    <IdentityMembers>
      <IdentityMember>
        <GroupName></GroupName>
        <UserName></UserName>
      </IdentityMember>
    </IdentityMembers>
  </UserGroup>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityMembers
Table type	Multi-instance table
Row name	IdentityMember
Restrictions	N/A

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
UserName	Name of the member user	Index	String, case-sensitive. Length: 1 to 55 characters.	The name cannot be a , al , or all , and cannot contain any of the following characters: \ / : * ? < > @

UserAccounts/UserGroup/IdentityGroups

Table of member groups in an identity group.

XML structure

```

<UserAccounts>
  <UserGroup>
    <IdentityGroups>
      <IdentityGroup>
        <GroupName></GroupName>
        <IdentityGroup></IdentityGroup>
      </IdentityGroup>
    </IdentityGroups>
  </UserGroup>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityGroups
Table type	Multi-instance table
Row name	IdentityGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Name of the identity group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A
IdentityGroup	Name of the member group	Index	String, case-insensitive. Length: 0 to 32 characters.	N/A

UserAccounts/IdentityUser

Table of online user information for user identification.

XML structure

```
<UserAccounts>
  <Identity>
    <IdentityUsers>
      <IdentityUser>
        <UserName></UserName>
        <IpAddress></IpAddress>
        <MacAddress></MacAddress>
        <Type></Type>
      </IdentityUser>
    </IdentityUsers>
  </Identity>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityUsers
Table type	Multi-instance table
Row name	IdentityUser
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name	Index	String, case-sensitive. Length: 1 to 55 characters.	N/A
IpAddress	IP address of the user	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user	Index	MAC address format: XX-XX-XX-XX-XX-XX	If the column is empty, the system ignores the user MAC address.
Type	User type	N/A	Unsigned integer: • 1—Static. • 2—Portal. • 3—IPoE. • 4—PPP.	The online user can have various types at the same time. Obtain the value by displacement calculation.

UserAccounts/IdentityEnable

Enable or disable the user identification feature.

XML structure

```
<UserAccounts>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable or disable the user identification feature	N/A	Boolean: - true - false	The default is false.

UserAccounts/ChangePasswords

Change user passwords.

XML structure

```
<UserAccounts>
  <ChangePasswords>
    <ChangePassword>
      <UserName></UserName>
    </ChangePassword>
  </ChangePasswords>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangePasswords
Table type	Multi-instance table
Row name	ChangePassword
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name entered by the user	Index	String in the format of <i>localusername@domain</i> or <i>localusername</i>. Length: 1 to 311 characters. <i>localusername</i>—Local user name, case-sensitive string of 1 to 55 characters. <i>@</i>—Domain name delimiter. <i>domain</i>—Domain name, case-insensitive string of 1 to 255 characters.	The local user name cannot be a , al , or all , and it cannot contain any of the following characters: \ / : * ? < > @

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Identity

Identity/ResetOnlineUser

This table deletes online identity users.

XML structure

```
<Identity>
  <ResetOnlineUser>
    <ResetType></ResetType>
    <DomainName></DomainName>
    <UserName></UserName>
    <IpAddress></IpAddress>
    <MacAddress></MacAddress>
  </ResetOnlineUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetOnlineUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetType	Deletion scope.	Index	Enumeration: • 0—Deletes all online identity users. • 1—Deletes all online identity users in an identity domain. • 2—Deletes an online identity user with a specific IP or MAC address. • 3—Deletes an online identity user in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	If the index is empty, the user doesn't belong

Column name	Column description	Column type	Data type and restrictions	Remarks
			The domain name cannot contain a question mark (?).	to any domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/PolicyImportData

This table imports online identity users or identity user accounts from servers.

XML structure

```
<Identity>
  <PolicyImportData>
    <PolicyName></PolicyName>
    <ImportDataType></ImportDataType>
  </PolicyImportData>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	PolicyImportData
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ImportDataType	Type of imported data.	N/A	Enumeration: 0—User accounts.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Online users.	

Identity/ImportAccountUser

This table imports network access user accounts, excluding guest accounts.

XML structure

```
<Identity>
  <ImportAccountUser>
    <FileName></FileName>
    <AutoCreateGroup></AutoCreateGroup>
    <Override></Override>
    <StartLine></StartLine>
  </ImportAccountUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ImportAccountUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the source .csv file to import user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The import path depends on the Web service frame. Select the filename on the webpage. The .csv file must use correct data format that complies with the export network access user account template.
AutoCreateGroup	Whether to create nonexistent groups automatically.	N/A	Boolean: - true. - false.	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
Override	Whether to override existing accounts with the same name.	N/A	Boolean: - true. - false.	The default is false.
StartLine	Start line to import user accounts.	N/A	Unsigned integer. Value range: 1 to 1048576.	The default is 1.

Identity/ExportAccountUser

This table exports network access user accounts, excluding guest accounts.

XML structure

```

<Identity>
  <ExportAccountUser>
    <FileName></FileName>
    <DomainName></DomainName>
    <UserName></UserName>
  </ExportAccountUser>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	ExportAccountUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export user accounts to.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.
DomainName	Domain name.	N/A	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username.	N/A	String, case-sensitive. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Identity/ExportTemplet

This table exports a network access user account template.

XML structure

```
<Identity>
  <ExportTemplet>
    <FileName></FileName>
  </ExportTemplet>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ExportTemplet
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the destination .csv file to export network access user accounts to.	N/A	String, case-insensitive. Length: 1 to 255 characters.	The export path depends on the Web service frame. Select the filename on the webpage.

Identity/ResetConfigGroup

This table deletes identity groups.

XML structure

```
<Identity>
  <ResetConfigGroup>
    <ResetConfigType></ResetConfigType>
    <DomainName></DomainName>
    <GroupName></GroupName>
  </ResetConfigGroup>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetConfigGroup
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetConfigType	Deletion scope.	Index	Enumeration: • 0—Deletes all identity groups. • 1—Deletes an identity group in an identity domain. • 2—Deletes all identity groups in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters. The group name cannot contain a question mark (?).	N/A

Identity/ResetConfigUser

This table deletes identity user accounts.

XML structure

```
<Identity>
  <ResetConfigUser>
    <ResetType></ResetType>
    <DomainName></DomainName>
    <UserName></UserName>
  </ResetConfigUser>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ResetConfigUser
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ResetType	Deletion scope.	Index	Enumeration: • 0—Deletes all identity user accounts. • 1—Deletes an identity user account in an identity domain. • 2—Deletes all identity user accounts in an identity domain.	N/A
DomainName	Identity domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
UserName	Identity user account name.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

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Identity

Identity/StaticUsers

This table contains static identity user information.

XML structure

```
<Identity>
  <StaticUsers>
    <StaticUser>
      <DomainName></DomainName>
      <Name></Name>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
    </StaticUser>
  </StaticUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
Name	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpType	IP address family.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/IdentityEnable

This table enables or disables the user identification feature.

XML structure

```

<Identity>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enables or disables the user identification feature.	N/A	Boolean: - true. - false.	The default is false.

Identity/UserImportPolicies

This table contains identity user import policy information.

XML structure

```
<Identity>
  <UserImportPolicies>
    <UserImportPolicy>
      <PolicyName></PolicyName>
      <UpdateInterval></UpdateInterval>
      <ImportType></ImportType>
    </UserImportPolicy>
  </UserImportPolicies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserImportPolicies
Table type	Multi-instance table
Row name	UserImportPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
UpdateInterval	Interval for automatic user account import.	N/A	Unsigned integer. Value range: 1 to 65536 hours.	The default value is 24.
ImportType	Import type for automatic user account import.	N/A	Enumeration: • 1—all. • 2—group. • 3—user.	N/A

Identity/Policies/RestfulPolicies

This table contains Restful server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <RestfulPolicies>
      <RestfulPolicy>
        <PolicyName></PolicyName>
        <RestfulServerName></RestfulServerName>
      </RestfulPolicy>
    </RestfulPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulPolicies
Table type	Multi-instance table
Row name	RestfulPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RestfulServerName	Restful server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Identity/Policies/LDAPPolicies

This table contains LDAP server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <LDAPPolicies>
      <LDAPPolicy>
        <PolicyName></PolicyName>
        <LDAPSchemeName></LDAPSchemeName>
      </LDAPPolicy>
    </LDAPPolicies>
  </Policies>
</Identity>
```

```

    </LDAPPolicies>
  </Policies>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	LDAPPolicies
Table type	Multi-instance table
Row name	LDAPPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LDAPSchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/RestfulServers

This table contains information about the Restful server.

XML structure

```

<Identity>
  <RestfulServers>
    <RestfulServer>
      <ServerName></ServerName>
      <LoginName></LoginName>
      <Password></Password>
      <GetUserDatabase></GetUserDatabase>
      <GetUserGroupDatabase></GetUserGroupDatabase>
      <GetOnlineUser></GetOnlineUser>
      <PutOnlineUser></PutOnlineUser>
      <PutOfflineUser></PutOfflineUser>
      <DetectEnable></DetectEnable>
      <DetectInterval></DetectInterval>
      <DetectMaxCount></DetectMaxCount>
      <VpnName></VpnName>
    </RestfulServer>
  </RestfulServers>
</Identity>

```

```

    </RestfulServers>
  </Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	RestfulServers
Table type	Multi-instance table
Row name	RestfulServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginName	Login name of the Restful server.	N/A	String.	N/A
Password	Password of the Restful server.	N/A	Simple: String. Length: 1 to 63 characters. Cipher: String. Length: 1 to 117 characters.	N/A
GetUserDataBase	URI for requesting network access user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetUserGroup Database	URI for requesting user group information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetOnlineUser	URI for requesting online network access user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOnlineUser	URI for uploading online user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOfflineUser	URI for uploading	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	offline user information.			
DetectEnable	Enables or disables the connectivity detection feature of the Restful server.	N/A	Boolean: - true. - false.	The default is false.
DetectInterval	Interval for connectivity detection of the Restful server.	N/A	Unsigned integer. Value range: 1 to 10 minutes.	The default time is 5.
DetectMaxCount	Maximum number of probes per detection.	N/A	Unsigned integer. Value range: 1 to 5.	The default maximum number is 3.
VpnName	VPN instance name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Identity/UserAccountsAutoImport

This table controls whether to automatically import identity user accounts.

XML structure

```

<Identity>
  <UserAccountsAutoImport>
    <UserAccountAutoImport>
      <PolicyName></PolicyName>
      <Auto></Auto>
    </UserAccountAutoImport>
  </UserAccountsAutoImport>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	UserAccountsAutoImport
Table type	Multi-instance table
Row name	UserAccountAutoImport
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Auto	Enables or disables automatic user account import.	N/A	Boolean: - true. - false.	The default is false.

Identity/OnlineUserDomFormat

This table contains username match mode information for online identity users.

XML structure

```
<Identity>
  <OnlineUserDomFormat>
    <DomainFormat></DomainFormat>
  </OnlineUserDomFormat>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUserDomFormat
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainFormat	Username match mode.	N/A	Enumeration: 1—With domain. 2—Without domain. 3—Keep original.	The default is 3.

Identity/SecManageServers

This table contains security management server set information.

XML structure

```
<Identity>
  <SecManageServers>
    <SecManageServer>
      <ServerName></ServerName>
      <ListenPort></ListenPort>
      <EncrypAlgorithm></EncrypAlgorithm>
      <SharedKey></SharedKey>
    </SecManageServer>
  </SecManageServers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageServers
Table type	Multi-instance table
Row name	SecManageServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server set name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ListenPort	Port to listen to the security management servers.	N/A	Unsigned integer. Value range: 1 to 65535.	The default value is 8001.
EncrypAlgorithm	Encryption method of the security management server set.	N/A	Enumeration: • 0—3DES. • 1—AES128.	N/A
SharedKey	Encryption secret key of the security management	N/A	Simple: String. Length varies by EncrypAlgorithm.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	server set.		3DES: 1 to 24 characters, - AES128: 1 to 16 characters.	

Identity/SecManageIPs

This table contains IP address information for security management servers.

XML structure

```

<Identity>
  <SecManageIPs>
    <SecManageIP>
      <ServerName></ServerName>
      <Ipv4Address></Ipv4Address>
    </SecManageIP>
  </SecManageIPs>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	SecManageIPs
Table type	Multi-instance table
Row name	SecManageIP
Restrictions	ServerName can be chosen from Identity/SecManageServers
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of a security management server.	Index	IPv4 address.	N/A

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Identity

Identity/StaticUsers

This table contains static identity user information.

XML structure

```
<Identity>
  <StaticUsers>
    <StaticUser>
      <DomainName></DomainName>
      <Name></Name>
      <IpType></IpType>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
    </StaticUser>
  </StaticUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	StaticUsers
Table type	Multi-instance table
Row name	StaticUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	If the index is empty, the user doesn't belong to any domain.
Name	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A
IpType	IP address family.	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	IP address of the user.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address of the user.	Index	MAC address format: ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.

Identity/OnlineUsers

This table contains online identity user information.

XML structure

```

<Identity>
  <OnlineUsers>
    <OnlineUser>
      <DomainName></DomainName>
      <UserName></UserName>
      <IpAddress></IpAddress>
      <MacAddress></MacAddress>
      <Type></Type>
    </OnlineUser>
  </OnlineUsers>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
UserName	Username.	Index	String. Length: 1 to 55 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The username cannot contain a question mark (?).	
IpAddress	IP address.	Index	IPv4 or IPv6 address.	N/A
MacAddress	MAC address.	Index	MAC address format: ff-ff-ff-ff-ff.	If the index is empty, the system ignores the user MAC address.
Type	User type.	N/A	Unsigned integer.	An online identity user can have various types at the same time: • 1—Static. • 2—Dynamic. • 3—Static, Dynamic.

Identity/IdentityEnable

This table enables or disables the user identification feature.

XML structure

```
<Identity>
  <IdentityEnable>
    <Enable></Enable>
  </IdentityEnable>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	IdentityEnable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enables or disables the user identification feature.	N/A	Boolean: • true. • false.	The default is false.

Identity/AccountUsers

This table contains identity user account information.

XML structure

```
<Identity>
  <AccountUsers>
    <AccountUser>
      <DomainName></DomainName>
      <UserName></UserName>
    </AccountUser>
  </AccountUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	AccountUsers
Table type	Multi-instance table
Row name	AccountUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Identity/AccountGroups

This table contains identity group information.

XML structure

```
<Identity>
```

```

<AccountGroups>
  <AccountGroup>
    <DomainName></DomainName>
    <GroupName></GroupName>
  </AccountGroup>
</AccountGroups>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	AccountGroups
Table type	Multi-instance table
Row name	AccountGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/UserImportPolicies

This table contains identity user import policy information.

XML structure

```

<Identity>
  <UserImportPolicies>
    <UserImportPolicy>
      <PolicyName></PolicyName>
      <UpdateInterval></UpdateInterval>
      <ImportType></ImportType>
    </UserImportPolicy>
  </UserImportPolicies>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	UserImportPolicies
Table type	Multi-instance table
Row name	UserImportPolicy
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
UpdateInterval	Interval for automatic user account import.	N/A	Unsigned integer. Value range: 1 to 65536 hours.	The default value is 24.
ImportType	Import type for automatic user account import.	N/A	Enumeration: • 1—all. • 2—group. • 3—user.	N/A

Identity/Policies/RestfulPolicies

This table contains Restful server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <RestfulPolicies>
      <RestfulPolicy>
        <PolicyName></PolicyName>
        <RestfulServerName></RestfulServerName>
      </RestfulPolicy>
    </RestfulPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	RestfulPolicies
Table type	Multi-instance table
Row name	RestfulPolicy
Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
RestfulServerName	Restful server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

Identity/Policies/LDAPPolicies

This table contains LDAP server information in the identity user import policy.

XML structure

```
<Identity>
  <Policies>
    <LDAPPolicies>
      <LDAPPolicy>
        <PolicyName></PolicyName>
        <LDAPSchemeName></LDAPSchemeName>
      </LDAPPolicy>
    </LDAPPolicies>
  </Policies>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	LDAPPolicies
Table type	Multi-instance table
Row name	LDAPPolicy

Restrictions	PolicyName can be chosen from Identity/UserImportPolicies.
--------------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LDAPSchemeName	LDAP scheme name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/RestfulServers

This table contains information about the Restful server.

XML structure

```

<Identity>
  <RestfulServers>
    <RestfulServer>
      <ServerName></ServerName>
      <LoginName></LoginName>
      <GetUserDatabase></GetUserDatabase>
      <GetUserGroupDatabase></GetUserGroupDatabase>
      <GetOnlineUser></GetOnlineUser>
      <PutOnlineUser></PutOnlineUser>
      <PutOfflineUser></PutOfflineUser>
      <DetectEnable></DetectEnable>
      <DetectInterval></DetectInterval>
      <DetectMaxCount></DetectMaxCount>
      <VpnName></VpnName>
      <ConnectState></ConnectState>
    </RestfulServer>
  </RestfulServers>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	RestfulServers
Table type	Multi-instance table
Row name	RestfulServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
LoginName	Login name of the Restful server.	N/A	String.	N/A
GetUserDataBase	URI for requesting network access user account information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetUserGroupDatabase	URI for requesting user group information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
GetOnlineUser	URI for requesting online network access user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOnlineUser	URI for uploading online user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
PutOfflineUser	URI for uploading offline user information.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
DetectEnable	Enables or disables the connectivity detection feature of the Restful server.	N/A	Boolean: • true. • false.	The default is false.
DetectInterval	Interval for connectivity detection of the Restful server.	N/A	Unsigned integer. Value range: 1 to 10 minutes.	The default time is 5.
DetectMaxCount	Maximum number of probes per detection.	N/A	Unsigned integer. Value range: 1 to 5.	The default maximum number is 3.
VpnName	VPN instance name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ConnectState	Connectivity state between the device and	N/A	Boolean: • true—Reachable. • false—Unreachable.	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the Restful server.			

Identity/UserAccountsAutoImport

This table controls whether to automatically import identity user accounts.

XML structure

```
<Identity>
  <UserAccountsAutoImport>
    <UserAccountAutoImport>
      <PolicyName></PolicyName>
      <Auto></Auto>
    </UserAccountAutoImport>
  </UserAccountsAutoImport>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	UserAccountsAutoImport
Table type	Multi-instance table
Row name	UserAccountAutoImport
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Auto	Enables or disables automatic user account import.	N/A	Boolean: - true. - false.	The default is false.

Identity/OnlineUserDomFormat

This table contains username match mode information for online identity users.

XML structure

```
<Identity>
  <OnlineUserDomFormat>
    <DomainFormat></DomainFormat>
  </OnlineUserDomFormat>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	OnlineUserDomFormat
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainFormat	Username match mode.	N/A	Enumeration: • 1—With domain. • 2—Without domain. • 3—Keep original.	The default is 3.

Identity/SecManageServers

This table contains security management server set information.

XML structure

```
<Identity>
  <SecManageServers>
    <SecManageServer>
      <ServerName></ServerName>
      <ListenPort></ListenPort>
      <EncrypAlgorithm></EncrypAlgorithm>
    </SecManageServer>
  </SecManageServers>
</Identity>
```


Table description

Item	Description
Feature name	Identity
Table name	SecManageServers
Table type	Multi-instance table
Row name	SecManageServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server set name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ListenPort	Port to listen to security management servers.	N/A	Unsigned integer. Value range: 1 to 65535.	The default value is 8001.
EncrypAlgorithm	Encryption method of the security management server set.	N/A	Enumeration: • 0—3DES. • 1—AES128.	N/A

Identity/SecManageIPs

This table contains IP address information for security management servers.

XML structure

```
<Identity>
  <SecManageIPs>
    <SecManageIP>
      <ServerName></ServerName>
      <Ipv4Address></Ipv4Address>
    </SecManageIP>
  </SecManageIPs>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	SecManageIPs

Table type	Multi-instance table
Row name	SecManageIP
Restrictions	ServerName can be chosen from Identity/SecManageServers.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Server name.	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Ipv4Address	IPv4 address of a security management server.	Index	IPv4 address.	N/A

Identity/TopUsers

This table contains top user information for user identification. Top users refer to identity users that do not belong to any identity groups.

XML structure

```

<Identity>
  <TopUsers>
    <TopUser>
      <DomainName></DomainName>
      <UserName></UserName>
    </TopUser>
  </TopUsers>
</Identity>

```

Table description

Item	Description
Feature name	Identity
Table name	TopUsers
Table type	Multi-instance table
Row name	TopUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user doesn't belong to any domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain a question mark (?).	N/A

Identity/TopGroups

This table contains top user group information for user identification. Top groups refer to identity groups that do not belong to any parent identity groups.

XML structure

```
<Identity>
  <TopGroups>
    <TopGroup>
      <DomainName></DomainName>
      <GroupName></GroupName>
    </TopGroup>
  </TopGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	TopGroups
Table type	Multi-instance table
Row name	TopGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters.	If the index is empty, the user doesn't belong to any domain.

Column name	Column description	Column type	Data type and restrictions	Remarks
			The domain name cannot contain a question mark (?).	
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/ParentGroups

This table contains information about identity groups to which an identity user belongs.

XML structure

```
<Identity>
  <ParentGroups>
    <ParentGroup>
      <DomainName></DomainName>
      <UserName></UserName>
      <GroupName></GroupName>
    </ParentGroup>
  </ParentGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	ParentGroups
Table type	Multi-instance table
Row name	ParentGroup
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the identity user doesn't belong to any domain.
UserName	Username.	Index	String. Length: 1 to 55 characters. The username cannot contain	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			a question mark (?).	
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

Identity/MemberUsers

This table contains information about member identity users in an identity group.

XML structure

```
<Identity>
  <MemberUsers>
    <MemberUser>
      <DomainName></DomainName>
      <GroupName></GroupName>
      <UserName></UserName>
    </MemberUser>
  </MemberUsers>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	MemberUsers
Table type	Multi-instance table
Row name	MemberUser
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the identity group doesn't belong to any domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
UserName	Username.	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 55 characters. The username cannot contain a question mark (?).	

Identity/MemberGroups

This table contains information about member identity groups in an identity group.

XML structure

```
<Identity>
  <MemberGroups>
    <MemberGroup>
      <DomainName></DomainName>
      <GroupName></GroupName>
    </MemberGroup>
  </MemberGroups>
</Identity>
```

Table description

Item	Description
Feature name	Identity
Table name	MemberGroups
Table type	Multi-instance table
Row name	MemberGroup
Restrictions	To perform the get operation, you must enter values for all index columns. To perform the get-bulk operation, you must enter values for at least the first two index columns.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Domain name.	Index	String, case-insensitive. Length: 1 to 255 characters. The domain name cannot contain a question mark (?).	If the index is empty, the user group doesn't belong to any domain.
GroupName	Identity group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
MemberGroup	Member group name.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

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UserLog/FlowLog/ClearAllLogHostsStatistics	2
XML structure	2
Table description	2
Columns	2

UserLog

UserLog/FlowLog/ClearLogHostStatistics

This table is used to clear statistics of specified flow log host.

XML structure

```
<UserLog>
  <FlowLog>
    <ClearLogHostStatistics>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Clear></Clear>
      </Host>
    </ClearLogHostStatistics>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	ClearLogHostStatistics
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear statistics of all flow log hosts.	N/A	This column must be empty.	N/A

UserLog/FlowLog/ClearAllLogHostsStatistics

This table is used to clear statistics of all flow log hosts.

XML structure

```

<UserLog>
  <FlowLog>
    <ClearAllLogHostsStatistics>
      <Clear/>
    </ClearAllLogHostsStatistics>
  </FlowLog>
</UserLog>

```

Table description

Item	Description
Feature name	UserLog
Table name	ClearAllLogHostsStatistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear statistics of all flow log hosts.	N/A	This column must be empty.

Contents

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XML structure	2
Table description	2
Columns	3

UserLog

UserLog/FlowLog/LogHosts

This table contains NAT444 flow log hosts information.

XML structure

```
<UserLog>
  <FlowLog>
    <LogHosts>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Port></Port>
      </Host>
    </LogHosts>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to 64 log hosts.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535. Default: 9002.	N/A

UserLog/FlowLog/LogAttribute

This table contains global attributes about NAT444 flow log.

XML structure

```

<UserLog>
  <FlowLog>
    <LogAttribute>
      <Version></Version>
      <SourceIpAddress></SourceIpAddress>
      <SourceIpv6Address></SourceIpv6Address>
      <LoadBalance></LoadBalance>
      <OutputToSyslog></OutputToSyslog>
    </LogAttribute>
  </FlowLog>
</UserLog>

```

Table description

Item	Description
Feature name	UserLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	The version of NAT444 flow logs	N/A	Enumeration: 0—Version 1.0(Default). 1—Version 3.0.	N/A
SourceIpAddress	The source IPv4 address for output NAT444 flow logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1
SourceIpv6Address	The source Ipv6 address for output NAT444 flow logs	N/A	String, Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8
LoadBalance	The load balance function of log host	N/A	Boolean: - true - false(Default)	When the load balance function is disabled, a log UDP packet will be sent to each log host respectively. When the load balance function is enabled, a log UDP packet will only be sent to just one log host instead of all log hosts.
OutputToSyslog	Whether the flow log will be sent as syslog	N/A	Boolean: - true - false(Default)	By default, the flow logs will be sent to flow log hosts. When the flow log is sent to syslog, the flow logs will not be sent to flow log host anymore.

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UserLog

UserLog/FlowLog/LogHosts

This table contains NAT444 flow log hosts information.

XML structure

```
<UserLog>
  <FlowLog>
    <LogHosts>
      <Host>
        <Address></Address>
        <VRF></VRF>
        <Port></Port>
        <LogCount></LogCount>
        <LogPacketCount></LogPacketCount>
      </Host>
    </LogHosts>
  </FlowLog>
</UserLog>
```

Table description

Item	Description
Feature name	UserLog
Table name	LogHosts
Table type	Multi-instance table
Row name	Host
Restrictions	The device supports up to 64 log hosts.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Address of the log host	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. HostName: Case-insensitive string, Length: 1 to 253 characters.	IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8 HostName example: www. example.com

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VRF instance name	Index	String. Length: 0 to 31 characters.	If the log host is on the public network, the length of characters is 0.
Port	Port number of the log host	N/A	Unsigned integer. Value range: 1 to 65535. Default: 9002.	N/A
LogCount	The logs count sent to current log host	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
LogPacketCount	The UDP packets count of user logs sent to current log host	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

UserLog/FlowLog/LogAttribute

This table contains global attributes about NAT444 flow log.

XML structure

```

<UserLog>
  <FlowLog>
    <LogAttribute>
      <Version></Version>
      <SourceIpAddress></SourceIpAddress>
      <SourceIpv6Address></SourceIpv6Address>
      <LoadBalance></LoadBalance>
      <OutputToSyslog></OutputToSyslog>
    </LogAttribute>
  </FlowLog>
</UserLog>

```

Table description

Item	Description
Feature name	UserLog
Table name	LogAttribute
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	The version of NAT444 flow logs	N/A	Enumeration: 0—Version 1.0. 1—Version 3.0.	N/A
SourceIpAddress	The source IPv4 address for output NAT444 flow logs	N/A	String, dotted decimal notation.	Example: 1.1.1.1
SourceIpv6Address	The source Ipv6 address for output NAT444 flow logs	N/A	Hexadecimal string, colon-separated.	Example: 1:2:3:4:5:6:7:8
LoadBalance	The load balance function of log host	N/A	Boolean: - true - false	When the load balance function is disabled, a log UDP packet will be sent to each log host respectively. When the load balance function is enabled, a log UDP packet will only be sent to just one log host instead of all log hosts.
OutputToSyslog	Whether the flow log will be sent as syslog	N/A	Boolean: - true - false	By default, the flow logs will be sent to flow log hosts. When the flow log is sent to syslog, the flow logs will not be sent to flow log host anymore.

Comware V7 UserProfile NETCONF XML API Configuration Reference

Revision Record

Date	Revision Version	Change Description	Author
2016-11-12	V1.00	Initial	yufeixiang 11806

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UserProfile

UserProfile/UserProfiles

This table contains user profile information.

XML structure

```
<UserProfile>
  <UserProfiles>
    <Profile>
      <Name></Name>
      <Type></Type>
    </Profile>
  </UserProfiles>
</UserProfile>
```

Table description

Item	Description
Feature name	UserProfile
Table name	UserProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Type	User profile type	N/A	Enumeration: • 1—User profile. • 2—Session group profile.	N/A

ACL/UserProfilePfilter

This table contains information about packet filter application for user profile.

XML structure

```
<ACL>
  <UserProfilePfilter>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <AcIType></AcIType>
      <AcIGroup></AcIGroup>
    </Apply>
  </UserProfilePfilter>
</ACL>
```

Table description

Item	Description
Feature name	ACL
Table name	UserProfilePfilter
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
AcIType	ACL type.	N/A	Enumeration: • 1—IPv4 ACL. • 2—IPv6 ACL.	N/A
AcIGroup	ACL name or number.	N/A	• ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be all. Only Apply an ACL at one direction. If want to change the ACL, must to delete the item and create a new item.

CAR/UserProfileCAR

This table contains CAR application on user profile.

XML structure

```

<CAR>
  <UserProfileCAR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAR>
</CAR>

```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAR
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
Type	Match type	Index	Enumeration: • 4—Any	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value range for CIR varies by device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	If CBS or PIR is not configured, EBS cannot be configured
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value range for PIR varies by device model.

GTS/UserProfileGTS

This table contains GTS application on user profile.

XML structure

```
<GTS>
  <UserProfileGTS>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <Queue-length></Queue-length>
    </Apply>
  </UserProfileGTS>
</GTS>
```

Table description

Item	Description
Feature name	GTS
Table name	UserProfileGTS
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0 —Inbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			1—Outbound.	
Type	Match type	Index	Enumeration: 1—Any 4—Queue	N/A
Value	Match type value	Index	Unsigned integer.	When Type is 4 , the value range is 0 to 7. When Type is 1 , this column only can be configured as 0.
CIR	Committed information rate in kbps	N/A	Unsigned integer.	Required. The value of this column depends on the device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model. If CBS or PIR is not configured, EBS cannot be configured
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value of this column depends on the device model.

HardwareQueue/UserProfileQMProfile

This table contains queue scheduling profile application on user profile.

XML structure

```

<HardwareQueue>
  <UserProfileQMProfile>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <SchedulingMode></SchedulingMode>
      <QMProfileName></QMProfileName>
    </Apply>
  </UserProfileQMProfile>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	ProfileQMProfile
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: • 0—Eight-queue. • 1—Four-queue.	N/A
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

HardwareQueue/UserProfileQueue

This table contains queue application on user profile.

XML structure

```
<HardwareQueue>
  <UserProfileQueue>
```

```

    <Apply>
      <Name></Name>
      <QueueID></QueueID>
    </Apply>
  </UserProfileQueue>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQueue
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
QueueID	Queue ID	N/A	Unsigned integer	The value of this column depends on the device model.

MQC/UserProfileQosPolicy

This table contains information about QoS policies applied to user profile.

XML structure

```

<MQC>
  <UserProfileQosPolicy>
    <Apply>

```

```

    <UserProfileName></UserProfileName>
    <Direction></Direction>
    <QoSPolicyName></QoSPolicyName>
  </Apply>
</UserProfileQoSPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	UserProfileQoSPolicy
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
QoSPolicyName	QoS policy name	N/A	String. Length: 1 to 31 characters.	N/A

USERQOS/SessionIdentify

This table contains information about identify a session group on an interface.

XML structure

```

<USERQOS>
  <SessionIdentify>
    <Identify>

```

```

    <IfIndex></IfIndex>
    <Type></Type>
  </Identify>
</SessionIdentify>
</USERQOS>

```

Table description

Item	Description
Feature name	USERQOS
Table name	SessionIdentify
Table type	Multi-instance table
Row name	Identify
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer. Enumeration:	N/A
Type	Match type	N/A	1—Customer-VLAN 2—Service-VLAN 3—Customer-Service-VLAN 4—Subscriber-ID	To configure a session group profile for users, you must first use the operation.

Comware V7 UserProfile NETCONF XML API Data Reference

Revision Record

Date	Revision Version	Change Description	Author
2016-06-17	V1.00	Initial	yufeixiang 11806

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UserProfile

UserProfile/UserProfiles

This table contains user profile information.

XML structure

```
<UserProfile>
  <UserProfiles>
    <Profile>
      <Name></Name>
      <Type></Type>
    </Profile>
  </UserProfiles>
</UserProfile>
```

Table description

Item	Description
Feature name	UserProfile
Table name	UserProfiles
Table type	Multi-instance table
Row name	Profile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	User profile type	N/A	Enumeration: 1—User profile. 2—Session group profile.	N/A

ACL/UserProfilePfilter

This table contains information about packet filter application for user profile.

XML structure

```

<ACL>
  <UserProfilePfilter>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <AclType></AclType>
      <AclGroup></AclGroup>
    </Apply>
  </UserProfilePfilter>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	UserProfilePfilter
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction.	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
AcIType	ACL type.	N/A	Enumeration: • 1—IPv4 ACL. • 2—IPv6 ACL.	N/A
AcIGroup	ACL name or number.	N/A	• ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 3999.	An ACL name must start with an English letter and cannot be all .

CAR/UserProfileCAR

This table contains information about user profile CAR.

XML structure

```

<CAR>
  <UserProfileCAR>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
    </Apply>
  </UserProfileCAR>
</CAR>

```

Table description

Item	Description
Feature name	CAR
Table name	UserProfileCAR
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
Type	Match type	Index	Enumeration: • Any	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	N/A
CBS	Committed burst size in bytes	N/A	Unsigned integer.	N/A
EBS	Excess burst size in bytes	N/A	Unsigned integer.	N/A
PIR	Peak information rate in kbps	N/A	Unsigned integer.	N/A

GTS/UserProfileGTS

This table contains information about user profile GTS.

XML structure

```
<GTS>
  <UserProfileGTS>
    <Apply>
      <Name></Name>
      <Direction></Direction>
      <Type></Type>
      <Value></Value>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <Queue-length></Queue-length>
```

```

    </Apply>
  </UserProfileGTS>
</GTS>

```

Table description

Item	Description
Feature name	GTS
Table name	UserProfileGTS
Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
Type	Match type	Index	Enumeration: 1—Any 4—Queue	N/A
Value	Match type value	Index	Unsigned integer.	N/A
CIR	Committed information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.
CBS	Committed burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
EBS	Excess burst size in bytes	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information rate in kbps	N/A	Unsigned integer.	The value of this column depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Queue-length	Length of the buffer queue	N/A	Unsigned integer.	The value of this column depends on the device model.

HardwareQueue/UserProfileQMProfile

This table contains queue scheduling profile application on user profile.

XML structure

```

<HardwareQueue>
  <UserProfileQMProfile>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <SchedulingMode></SchedulingMode>
      <QMProfileName></QMProfileName>
    </Apply>
  </UserProfileQMProfile>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQMProfile
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: • 0—Eight-queue. • 1—Four-queue.	N/A
QMProfileName	Queue scheduling profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

HardwareQueue/UserProfileQueue

This table contains user profile queue information.

XML structure

```
<HardwareQueue>
  <UserProfileQueue>
    <Apply>
      <Name></Name>
      <QueueID></QueueID>
    </Apply>
  </UserProfileQueue>
</HardwareQueue>
```

Table description

Item	Description
Feature name	HardwareQueue
Table name	UserProfileQueue

Item	Description
Table type	Multi-instance table
Row name	Apply
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	User Profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
QueueID	Queue ID	N/A	Unsigned integer	N/A

MQC/UserProfileQosPolicy

This table contains information about QoS policies applied to user profile.

XML structure

```

<MQC>
  <UserProfileQosPolicy>
    <Apply>
      <UserProfileName></UserProfileName>
      <Direction></Direction>
      <QoSPolicyName></QoSPolicyName>
    </Apply>
  </UserProfileQosPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	UserProfileQosPolicy

Table type	Multi-instance table
Row name	Apply
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserProfileName	User profile name	Index	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: • 0—Inbound. • 1—Outbound.	N/A
QoSPolicyName	Qos policy name	N/A	String. Length: 1 to 31 characters.	N/A

MQC/QoSPolicyCAR

This table contains information about CAR association running information applied to users.

XML structure

```

<MQC>
  <QoSPolicyCAR>
    <UserCar>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
      <Direction></Direction>
      <ClassName></ClassName>
      <CIR></CIR>
      <CBS></CBS>
      <EBS></EBS>
      <PIR></PIR>
      <GreenAction>

```

```

        <GreenActionType></GreenActionType>
        <GreenActionValue></GreenActionValue>
    </GreenAction>
    <YellowAction>
        <YellowActionType></YellowActionType>
        <YellowActionValue></YellowActionValue>
    </YellowAction>
    <RedAction>
        <RedActionType></RedActionType>
        <RedActionValue></RedActionValue>
    </RedAction>
    <GreenPkts></GreenPkts>
    <GreenBytes></GreenBytes>
    <YellowPkts></YellowPkts>
    <YellowBytes></YellowBytes>
    <RedPkts></RedPkts>
    <RedBytes></RedBytes>
</UserCar>
</QoSPolicyCAR>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	QoSPolicyCAR
Table type	Multi-instance table
Row name	UserCar
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthType	Authentiction type	Index	Enumeration: 0—Dot1x 1—Portal 2—ppp 3—IPOE 4—IPOE6 5—MACA 6—WLAN	N/A
UserID	UserID	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
CIR	Committed information rate	N/A	Unsigned integer.	N/A
CBS	Committed burst size	N/A	Unsigned integer.	N/A
EBS	Excess burst size	N/A	Unsigned integer.	N/A
PIR	Peak information rate	N/A	Unsigned integer.	N/A
GreenAction	Specify behavior for green packets	Data structure	Members include: - GreenActionType - GreenActionValue.	
GreenActionType	Green action type	N/A	Enumeration: 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue.	When GreenActionType is 1 , send the packet. When GreenActionType is 2 , remark DSCP value of the packet and send it. When GreenActionType is 3 , remark IP precedence of the packet and send it. When GreenActionType is 4 , remark EXP of the MPLS packet and send it. When GreenActionType is 5 , remark 802.1p priority value of the packet and send it. When GreenActionType is 6 , remark CLP bit of the ATM packet and send it. When GreenActionType is 7 , remark DE bit of the FR packet

Column name	Column description	Column type	Data type and restrictions	Remarks
				and send it. When GreenActionType is 8 , remark local precedence of the packet and send it. When GreenActionType is 10 , drop the packet. When GreenActionType is 19 , continue to process the packet. When GreenActionType is 1 , 10 or 19 , GreenActionValue is invisible. When GreenActionType is 6 or 7 , GreenActionValue is 0 to 1 . When GreenActionType is 2 , GreenActionValue is 0 to 63 . When GreenActionType is 3 , 4 , 5 , 8 , GreenActionValue is 0 to 7 .
GreenActionValue	Green action value	N/A	Unsigned integer.	
YellowAction	Specify behavior for yellow packets	Data structure	Members include: • YellowActionType. • YellowActionValue.	
YellowActionType	Yellow Action Type	N/A	Enumeration: • 1—pass. • 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	When YellowActionType is 1 , send the packet. When YellowActionType is 2 , remark DSCP value of the packet and send it. When YellowActionType is 3 , remark IP precedence of the packet and send it. When YellowActionType is 4 , remark EXP of the MPLS packet and send it. When YellowActionType is 5 , remark 802.1p priority value of the packet and send it. When YellowActionType is 6 , remark CLP bit of the ATM packet and send it. When YellowActionType is 7 , remark DE bit of the FR packet and send it. When YellowActionType is 8 , remark local precedence of the packet and send it. When YellowActionType is 10 ,

Column name	Column description	Column type	Data type and restrictions	Remarks
				drop the packet. When GreenActionType is 19, continue to process the packet. When YellowActionType is 1, 10 or 19, YellowActionValue is invisible. When YellowActionType is 6 or 7, YellowActionValue is 0 to 1. When YellowActionType is 2, YellowActionValue is 0 to 63. When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0 to 7.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	
RedAction	Specify behavior for red packets	Data structure	Members include: • RedActionType. • RedActionValue. Enumeration: • 1—pass. • 2—remark-dscp-pass. • 3—remark-prec-pass. • 4—remark-mpls-exp-pass. • 5—remark-dot1p-pass. • 6—remark-atm-clp-pass. • 7—remark-frde-pass. • 8—remark-local-prec-pass. • 10—discard. • 19—continue.	When RedActionType is 1, send the packet. When RedActionType is 2, remark DSCP value of the packet and send it. When RedActionType is 3, remark IP precedence of the packet and send it. When RedActionType is 4, remark EXP of the MPLS packet and send it. When RedActionType is 5, remark 802.1p priority value of the packet and send it. When RedActionType is 6, remark CLP bit of the ATM packet and send it. When RedActionType is 7, remark DE bit of the FR packet and send it. When RedActionType is 8, remark local precedence of the packet and send it. When RedActionType is 10, drop the packet. When GreenActionType is 19, continue to process the packet.
RedActionType	Red Action Type	N/A		When RedActionType is 1, 10 or 19, RedActionValue is invisible.
RedActionValue	Red Action Value	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
				When RedActionType is 6 or 7, RedActionValue is 0 to 1. When RedActionType is 2, RedActionValue is 0 to 63. When RedActionType is 3, 4, 5, 8, RedActionValue is 0 to 7.
GreenPkts	Number of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
GreenBytes	Bytes of green packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowPkts	Number of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
YellowBytes	Bytes of yellow packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedPkts	Number of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RedBytes	Bytes of red packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/QoSPolicyAccount

This table contains information about accounting running information applied to user.

XML structure

```

<MQC>
  <QoSPolicyAccount>
    <UserAccount>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
      <Direction></Direction>
      <ClassName></ClassName>
    </UserAccount>
  </QoSPolicyAccount>
</MQC>

```

```

    <Packets></Packets>
    <Bytes></Bytes>
    <pps></pps>
    <bps></bps>
  </UserAccount>
</QoSPolicyAccount>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	QoSPolicyAccount
Table type	Multi-instance table
Row name	UserAccount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	AuthType	Index	Enumeration : 0—Dot1x 1—Portal 2—ppp 3—IPOE 4—IPOE6 5—MACA 6—WLAN	N/A
UserID	UserID	Index	Unsigned integer.	N/A
Direction	Application direction	Index	Enumeration: 0—Inbound. 1—Outbound.	N/A
ClassName	Classifier name	Index	String. Length: 1 to 31 characters.	N/A
Packets	Accounting Packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bytes	Accounting Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
pps	Accounting packets per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
bps	Accounting bits per second	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

USERQOS/SessionIdentify

This table contains information about identify a session group on an interface.

XML structure

```
<USERQOS>
  <SessionIdentify>
    <Identify>
      <IfIndex></IfIndex>
      <Type></Type>
    </Identify>
  </SessionIdentify>
</USERQOS>
```

Table description

Item	Description
Feature name	USERQOS
Table name	SessionIdentify
Table type	Multi-instance table
Row name	Identify
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
Type	Match type	N/A	Enumeration: 1—Customer-VLAN	To configure a session group profile for users, you must first use the operation.

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—Service-VLAN 3—Customer-Service-VLAN - N 4—Subscriber-ID	

USERQOS/Users

This table contains information about the status of QOS on user.

XML structure

```

<USERQOS>
  <Users>
    <User>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <AuthType></AuthType>
      <UserID></UserID>
      <UserProfileName></UserProfileName>
      <InUserCAR></InUserCAR>
      <OutUserCAR></OutUserCAR>
      <InUserQoSPolicy></InUserQoSPolicy>
      <OutUserQoSPolicy></OutUserQoSPolicy>
      <InUserGTS></InUserGTS>
      <OutUserGTS></OutUserGTS>
      <InUserPfilter></InUserPfilter>
      <OutUserPfilter></OutUserPfilter>
      <OutUserQueue></OutUserQueue>
      <SessionGroupProfileName></SessionGroupProfileName>
      <InGroupCAR></InGroupCAR>
      <OutGroupCAR></OutGroupCAR>
      <InGroupQmprofile></InGroupQmprofile>
      <OutGroupQmprofile></OutGroupQmprofile>
      <InGroupGTS></InGroupGTS>
      <OutGroupGTS></OutGroupGTS>
    </User>
  </Users>
</USERQOS>

```

Table description

Item	Description
Feature name	USERQOS
Table name	Users
Table type	Multi-instance table
Row name	User
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Device station	Index	Struct include: Chassis. Slot. CPUID	N/A
Chassis	Chassis number	Index	Unsigned integer.	N/A
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	AuthType	Index	Enumeration : • 0—Dot1x • 1—Portal • 2—ppp • 3—IPOE • 4—IPOE6 • 5—MACA • 6—WLAN • 7—VPN-PEER	N/A
UserID	UserID	Index	Unsigned integer.	N/A
UserProfileName	User profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
InUserCAR	The status of inbound CAR on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutUserCAR	The status of outbound CAR on	N/A	Enumeration : • 1—no configuration	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	user profile		• 2—active • 3—inactive	
InUserQoSPolicy	The status of inbound Policy on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutUserQoSPolicy	The status of outbound Policy on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
InUserGTS	The status of inbound GTS on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutUserGTS	The status of outbound GTS on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
InUserPfilter	The status of inbound packter filter on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutUserPfilter	The status of outbound packter filter on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutUserQueue	The status of queue on user profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
SessionGroupProfileName	Session group profile name	N/A	String, case-insensitive. Length: 1 to 31 characters.	The string can only contain English letters, digits, underscores (_), and dots (.). The name can start with an English letter or digit, and cannot contain only digits. The name must be unique globally.
InGroupCAR	The status of inbound CAR on session group profile	N/A	Enumeration : • 1—no configuration • 2—active • 3—inactive	N/A
OutGroupCA	The status of outbound CAR on	N/A	Enumeration :	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
R	session group profile		1—no configuration 2—active 3—inactive	
InGroupQmprofile	The status of inbound qmprofile on session group profile	N/A	Enumeration : 1—no configuration 2—active 3—inactive	N/A
OutGroupQmprofile	The status of outbound qmprofile on session group profile	N/A	Enumeration : 1—no configuration 2—active 3—inactive	N/A
InGroupGTS	The status of inbound GTS on session group profile	N/A	Enumeration : 1—no configuration 2—active 3—inactive	N/A
OutGroupGTS	The status of outbound GTS on session group profile	N/A	Enumeration : 1—no configuration 2—active 3—inactive	N/A

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VAMC

EnableAllClient

This table is used to enable all VAM clients.

XML structure

```
<EnableAllClient>
  <Enable></Enable>
</EnableAllClient>
```

Table description

Item	Description
Feature name	VAMC
Table name	EnableAllClient
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable all VAM clients	NA	Boolean: - true—Enable - false—Disable	Must not be empty.

ResetClientFsm

This table is used to reset FSMs for VAM clients.

XML structure

```
<ResetClientFsm>
  <Reset>
    <IPVersion></IPVersion>
    <ClientName></ClientName>
  </Reset>
</ResetClientFsm>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetClientFsm
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The type of the VAM client	Index	Enumeration: • 4—IPv4 • 6—IPv6	N/A
ClientName	The name of the VAM client	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

ResetAllClientFsm

This table is used to reset all VAM clients.

XML structure

```
<ResetAllClientFsm>
  <Reset>
    <IPVersion></IPVersion>
  </Reset>
</ResetAllClientFsm>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetAllClientFsm
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The version of the IP protocol	Index	Enumeration: • 4—IPv4 • 6—IPv6	Must not be empty.

ResetClientStats

This table is used to clear statistics of a VAM client.

XML structure

```
<ResetClientStats>
  <Reset>
    <ClientName></ClientName>
  </Reset>
</ResetClientStats>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetClientStats
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The name of the VAM client	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).

ResetAllClientStats

This table is used to clear all client statistics.

XML structure

```
<ResetAllClientStats>
```

```
<Reset></Reset>  
</ResetAllClientStats>
```

Table description

Item	Description
Feature name	VAMC
Table name	ResetAllClientStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Clear all client statistics	NA	Must be empty.

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VAMC

VamcClients

This table is used to configure VAM clients.

XML structure

```
<VamcClients>
  <VamcClient>
    <ClientName></ClientName>
    <AdvpnDomain></AdvpnDomain>
    <Enable></Enable>
    <DumbTime></DumbTime>
    <PreSharedKey>
      <Type></Type>
      <Value></Value>
    </PreSharedKey>
    <Retry>
      <Interval></Interval>
      <Count></Count>
    </Retry>
    <Authentication>
      <UserName></UserName>
      <PasswordType></PasswordType>
      <Password></Password>
    </Authentication>
  </VamcClient>
</VamcClients>
```

Table description

Item	Description
Feature name	VAMC
Table name	VamcClients
Table type	Multi-instance table
Row name	VamcClient
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
AdvpnDomain	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
Enable	Whether the VAM client is enabled	N/A	Boolean: - true—Enabled - false—Disabled	N/A
DumbTime	The dumb time interval	N/A	Unsigned integer Value range: 10 to 600 The default value is 120	N/A
PreSharedKey	The pre-shared key	Data structure	Members include: - Type - Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: 1—simple 2—cipher	N/A
Value	The pre-shared key	N/A	String	The plaintext key is a case-sensitive string of 1 to 31 characters. The ciphertext key is a case-sensitive string of 1 to 73 characters.
Retry	The parameters for resending request packet	Data structure	Members include: - Interval - Count	N/A
Interval	The time interval of resending packets	N/A	Unsigned integer Value range: 3 to 30 The default is 5 seconds	N/A
Count	The number of resent packets	N/A	Unsigned integer Value range: 1 to 6 The default is 3	N/A
Authentication	The parameters for authentication	Data structure	Members include: - Username - PasswordType - Password	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Username	The user name	N/A	String Length: 1 to 253	Cannot contains slashes (/), back slashes (\), colons (:), asterisks (*), question marks (?), left angle brackets (<), right angle brackets (>), quotation marks ("), vertical bars (), and at signs (@).
PasswordType	The type of the password	N/A	Enumeration: 1—simple 2—cipher	N/A
Password	The value of the password	N/A	String	The plaintext password is a case-sensitive string of 0 to 63 characters. The ciphertext password is a case-sensitive string of 0 to 117 characters.

VamcServerCfg

This table is used to configure the VAM servers with which VAM clients register.

XML structure

```

<VamcServerCfg>
  <VamcServer>
    <ClientName></ClientName>
    <PriServer>
      <AddressType></AddressType>
      <Address></Address>
      <Port></Port>
    </PriServer>
    <SecServer>
      <AddressType></AddressType>
      <Address></Address>
      <Port></Port>
    </SecServer>
  </VamcServer>
</VamcServerCfg>

```

Table description

Item	Description
Feature name	VMAC

Item	Description
Table name	VamcServerCfg
Table type	Multi-instance table
Row name	VamcServer
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The client name	Index	String. Length: 1 to 63 characters.	Case-insensitive and contains only letters, digits, and dots (.).
PriServer	The primary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the primary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the primary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contain letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A
SecServer	The secondary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the secondary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contain letters, digits, hyphens (-), and underscores (_).

Column name	Column description	Column type	Data type and restrictions	Remarks
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

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VAMC

VamcClients

This table displays VAM clients configuration.

XML structure

```
<VamcClients>
  <VamcClient>
    <ClientName></ClientName>
    <AdvpnDomain></AdvpnDomain>
    <Enable></Enable>
    <DumbTime></DumbTime>
    <Retry>
      <Interval></Interval>
      <Count></Count>
    </Retry>
    <Authentication>
      <UserName></UserName>
    </Authentication>
  </VamcClient>
</VamcClients>
```

Table description

Item	Description
Feature name	VAMC
Table name	VamcClients
Table type	Multi-instance table
Row name	VamcClient
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
AdvpnDomain	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the VAM client is enabled	N/A	Boolean: - true—Enabled - false—Disabled	N/A
DumbTime	The dumb time interval	N/A	Unsigned integer Value range: 10 to 600 The default value is 120	N/A
Retry	The parameters for resending request packet	Data structure	Members include: - Interval - Count	N/A
Interval	The time interval of resending packets	N/A	Unsigned integer Value range: 3 to 30 The default is 5 seconds	N/A
Count	The number of resent packets	N/A	Unsigned integer Value range: 1 to 6 The default is 3	N/A
Authentication	The parameters for authentication	Data structure	Members include: Username	N/A
Username	The user name	N/A	String Length: 1 to 253	Cannot contains slashes (/), back slashes (\), colons (:), asterisks (*), question marks (?), left angle brackets (<), right angle brackets (>), quotation marks ("), vertical bars (), and at signs (@).

VamcServerCfg

This table displays the VAM servers with which VAM clients register.

XML structure

```

<VamcServerCfg>
  <VamcServer>
    <ClientName></ClientName>
    <PriServer>
      <AddressType></AddressType>
      <Address></Address>
      <Port></Port>
    </PriServer>
    <SecServer>
      <AddressType></AddressType>
      <Address></Address>
      <Port></Port>
  </VamcServer>
</VamcServerCfg>

```

```

    </SecServer>
  </VamcServer>
</VamcServerCfg>

```

Table description

Item	Description
Feature name	VMAC
Table name	VamcServerCfg
Table type	Multi-instance table
Row name	VamcServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	The client name	Index	String. Length: 1 to 63 characters.	Case-insensitive and contains only letters, digits, and dots (.).
PriServer	The primary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the primary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.
Address	The host name or IP address of the primary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contain letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A
SecServer	The secondary server	Data structure	Members include: • AddressType • Address • Port	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: • 1—IPv4 • 2—IPv6 • 3—Host	Must not be empty.

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	The host name or IP address of the secondary VAM server.	N/A	String	IPv4 address. IPv6 address. Hostname can contains letters, digits, hyphens (-), and underscores (_).
Port	The listening port of the server	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

ClientFsms

This table display FSM information for VAM clients.

XML structure

```

<ClientFsms>
  <Fsm>
    <ClientName></ClientName>
    <ServerType></ServerType>
    <IPVersion></IPVersion>
    <EnableStatus></EnableStatus>
    <DomainName></DomainName>
    <ServerHost></ServerHost>
    <ServerAddress></ServerAddress>
    <PrivateAddress></PrivateAddress>
    <TunnelID></TunnelID>
    <FsmState></FsmState>
    <FsmActive></FsmActive>
    <ClientType></ClientType>
    <HoldingTime></HoldingTime>
    <EncryptionAlg></EncryptionAlg>
    <AuthenticationAlg></AuthenticationAlg>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveCount></KeepaliveCount>
    <HubsNum></HubsNum>
  </Fsm>
</ClientFsms>

```

Table description

Item	Description
Feature name	VMAC
Table name	ClientFsms

Item	Description
Table type	Multi-instance table
Row name	Fsm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerType	The type of the server	Index	Enumeration: 0—Primary server 1—Secondary server	N/A
IPVersion	The type of the private address under the ADVPN tunnel	Index	Enumeration: 0—IPv4 1—IPv6 2—Invalid	The reference type of the VAM client in the ADVPN tunnel. 2 means the VAM client is not referenced.
EnableStatus	Whether the VAM client is enabled	N/A	Boolean: - true—Enabled - false—Disabled	N/A
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerHost	The host name of VAM server	N/A	String Length: 1 to 253 characters	Hostname can contain letters, digits, hyphens (-), and underscores (_).
ServerAddress	The VAM server host	N/A	String.	IPv4 address IPv6 address
PrivateAddress	Private address that the VAM client has registered with the VAM server.	N/A	String.	IPv4 address IPv6 address
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
FsmState	Current state of the VAM client FSM	N/A	Enumeration: 0—Offline 1—Init1 2—Init2 3—Reg 4—Online1 5—Online2 6—Dumb	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientType	VAM client type	N/A	Enumeration: 0—Unknown 1—Spoke 2—Hub	N/A
HoldingTime	Duration that the VAM client has been in the current state	N/A	Unsigned integer	Unit: seconds
EncryptionAlg	Negotiated encryption algorithm	N/A	Enumeration: 0—Unknown 1—None 2—DES 3—3DES 4—AES-CBC-128 5—AES-CBC-192 6—AES-CBC-256 7—AES-CTR-128 8—AES-CTR-192 9—AES-CTR-256	N/A
AuthenticationAlg	Negotiated authentication algorithm	N/A	Enumeration: 0—Unknown 1—None 2—HMAC-MD5-96 3—HMAC-MD5 4—HMAC-SHA1-96 5—HMAC-SHA1 6—HMAC-SHA2-256 7—HMAC-AES-XCBC-MAC	N/A
KeepaliveInterval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535	Unit: second
KeepaliveCount	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6	N/A
HubsNum	Number of hubs on the VAM server	N/A	Unsigned integer	N/A

IPv4ShortcutStats

This table displays IPv4 spoke-to-spoke tunnel establishment rule statistics for VAM clients.

XML structure

```
<IPv4ShortcutStats>
  <IPv4Shortcut>
    <ClientName></ClientName>
```

```

    <DomainName></DomainName>
    <ClientType></ClientType>
    <RuleNumber></RuleNumber>
  </IPv4Shortcut>
</IPv4ShortcutStats>

```

Table description

Item	Description
Feature name	VMAC
Table name	IPv4ShortcutStats
Table type	Multi-instance table
Row name	IPv4Shortcut
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ClientType	VAM client type	N/A	Enumeration: 0—Unknown 1—Spoke 2—Hub	N/A
RuleNumber	The number of IPv4 ACL rule received by the VAM client	N/A	Unsigned integer	N/A

IPv6ShortcutStats

This table displays IPv6 spoke-to-spoke tunnel establishment rule statistics for VAM clients.

XML structure

```

<IPv6ShortcutStats>
  <IPv6Shortcut>
    <ClientName></ClientName>
    <DomainName></DomainName>
    <ClientType></ClientType>
    <RuleNumber></RuleNumber>
  </IPv6Shortcut>
</IPv6ShortcutStats>

```



```

    </IPv6Shortcut>
  </IPv6ShortcutStats>

```

Table description

Item	Description
Feature name	VMAC
Table name	IPv6ShortcutStats
Table type	Multi-instance table
Row name	IPv6Shortcut
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainName	ADVPN domain for a VAM client	N/A	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ClientType	VAM client type	N/A	Enumeration: 0—Unknown 1—Spoke 2—Hub	N/A
RuleNumber	IPv6 ACL rule number received by the VAM client	N/A	Unsigned integer	N/A

IPv4ShortcutRules

This table displays spoke-to-spoke tunnel establishment rules for VAM clients.

XML structure

```

<IPv4ShortcutRules>
  <Rule>
    <ClientName></ClientName>
    <RuleNumber></RuleNumber>
    <Operation></Operation>
    <Protocol></Protocol>
    <Source>
      <StartAddr></StartAddr>
      <EndAddr></EndAddr>
    </Source>
  </Rule>

```

```

        <StartPort></StartPort>
        <EndPort></EndPort>
    </Source>
    <Destination>
        <StartAddr></StartAddr>
        <EndAddr></EndAddr>
        <StartPort></StartPort>
        <EndPort></EndPort>
    </Destination>
</Rule>
</IPv4ShortcutRules>

```

Table description

Item	Description
Feature name	VMAC
Table name	IPv4ShortcutRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
RuleNumber	ACL rule number	Index	Unsigned integer	N/A
Operation	The operation of a rule	N/A	Enumeration: 1—Permit. 2—Deny 3—Discard	N/A
Protocol	Matching IP protocol number	N/A	Unsigned integer	Protocols common to RFC 1700, POSIX, and X/Open
Source	Matching source IP address range and port number range.	Data structure	Members include: - StartAddr - EndAddr - StartPort - EndPort	N/A
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndAddr	Matching end address of the source IPv6 address range	N/A	String.	IPv4 address.
StartPort	Matching start port number of the source port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the source port number range	N/A	Unsigned integer	N/A
Destination	Matching destination IP address range and port number range	Data structure	Members include: - StartAddr - EndAddr - StartPort - EndPort	N/A
StartAddr	Matching start address of the destination IPv6 address range	N/A	String.	IPv4 address
EndAddr	Matching end address of the destination IPv6 address range	N/A	String.	IPv4 address.
StartPort	Matching start port number of the destination port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the destination port number range	N/A	Unsigned integer	N/A

IPv6ShortcutRules

This table displays spoke-to-spoke tunnel establishment rules for VAM clients.

XML structure

```

<IPv6ShortcutRules>
  <Rule>
    <ClientName></ClientName>
    <RuleNumber></RuleNumber>
    <Operation></Operation>
    <Protocol></Protocol>
  
```

```

<Source>
  <StartAddr></StartAddr>
  <EndAddr></EndAddr>
  <StartPort></StartPort>
  <EndPort></EndPort>
</Source>
<Destination>
  <StartAddr></StartAddr>
  <EndAddr></EndAddr>
  <StartPort></StartPort>
  <EndPort></EndPort>
</Destination>
</Rule>
</IPv6ShortcutRules>

```

Table description

Item	Description
Feature name	VMAC
Table name	IPv6ShortcutRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
RuleNumber	ACL rule number	Index	Unsigned integer	N/A
Operation	The operation of a rule	N/A	Enumeration: 1—Permit. 2—Deny 3—Discard	N/A
Protocol	Matching IP protocol number	N/A	Unsigned integer	Protocols common to RFC 1700, POSIX, and X/Open
Source	Matching source IP address range and port number range.	Data structure	Members include: - StartAddr - EndAddr - StartPort - EndPort	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv6 address.
EndAddr	Matching end address of the source IPv6 address range	N/A	String.	IPv6 address.
StartPort	Matching start port number of the source port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the source port number range	N/A	Unsigned integer	N/A
Destination	Matching destination IP address range and port number range	Data structure	Members include: - StartAddr - EndAddr - StartPort - EndPort	N/A
StartAddr	Matching start address of the destination IPv6 address range	N/A	String.	IPv6 address.
EndAddr	Matching end address of the destination IPv6 address range	N/A	String.	IPv6 address.
StartPort	Matching start port number of the destination port number range	N/A	Unsigned integer	N/A
EndPort	Matching end port number of the destination port number range	N/A	Unsigned integer	N/A

ClientStats

This table displays VAM client statistics.

XML structure

```

<ClientStats>
  <ClientStat>
    <ClientName></ClientName>
  
```

```

<ServerType></ServerType>
<ServerAddress></ServerAddress>
<EnableStatus></EnableStatus>
<PacketSent>
  <InitReqNum></InitReqNum>
  <SentInitFinNum></SentInitFinNum>
  <RegReqNum></RegReqNum>
  <AuthenResNum></AuthenResNum>
  <AddrReqNum></AddrReqNum>
  <NetworkRegReqNum></NetworkRegReqNum>
  <UpdateReqNum></UpdateReqNum>
  <LogoutReqNum></LogoutReqNum>
  <HubInfoResNum></HubInfoResNum>
  <DataFlowInfoResNum></DataFlowInfoResNum>
  <SentKeepaliveNum></SentKeepaliveNum>
  <SentErrorNum></SentErrorNum>
</PacketSent>
<PacketReceived>
  <InitResNum></InitResNum>
  <RecvInitFinNum></RecvInitFinNum>
  <AuthenReqNum></AuthenReqNum>
  <RegResNum></RegResNum>
  <AddrResNum></AddrResNum>
  <NetworkRegResNum></NetworkRegResNum>
  <UpdateResNum></UpdateResNum>
  <HubInfoReqNum></HubInfoReqNum>
  <DataFlowInfoReqNum></DataFlowInfoReqNum>
  <LogoutResNum></LogoutResNum>
  <RecvKeepaliveNum></RecvKeepaliveNum>
  <RecvErrorNum></RecvErrorNum>
  <RecvUnkonwnNum></RecvUnkonwnNum>
</PacketReceived>
</ClientStat>
</ClientStats>

```

Table description

Item	Description
Feature name	VMAC
Table name	ClientStats
Table type	Multi-instance table
Row name	ClientStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientName	VAM client name	Index	String Length: 1 to 63 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerType	The type of the server	Index	Enumeration: 1—Primary server 2—Secondary server	N/A
ServerAddress	The host name of the VAM server	N/A	String Length: 1 to 253 characters	Hostname can contain letters, digits, hyphens (-), and underscores (_).
EnableStatus	Whether the VAM client is enabled	N/A	Boolean: - true—Enabled - false—Disabled	N/A
PacketSent	The number of packets sent to the VAM server	Data structure	Members include: - InitReqNum - SentInitFinNum - RegReqNum - AuthenResNum - AddrReqNum - NetworkRegReqNum - UpdateReqNum - LogoutReqNum - HubInfoResNum - DataFlowInfoResNum - SentKeepaliveNum - SentErrorNum	N/A
InitReqNum	The number of Initialization request	N/A	Unsigned integer	N/A
SentInitFinNum	The number of Initialization complete	N/A	Unsigned integer	N/A
RegReqNum	The number of Register request	N/A	Unsigned integer	N/A
AuthenResNum	The number of Authentication information	N/A	Unsigned integer	N/A
AddrReqNum	The number of Address resolution request	N/A	Unsigned integer	N/A
NetworkRegReqNum	The number of Network registration request	N/A	Unsigned integer	N/A
UpdateReqNum	The number of Update request	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LogoutReqNum	The number of Logout request	N/A	Unsigned integer	N/A
HubInfoResNum	The number of Hub information response	N/A	Unsigned integer	N/A
DataFlowInfoResNum	The number of Data flow information response	N/A	Unsigned integer	N/A
SentKeepaliveNum	The number of Keepalive	N/A	Unsigned integer	N/A
SentErrorNum	The number of Error notification	N/A	Unsigned integer	N/A
PacketReceived	The number of packets received from VAM server	Data structure	Members include: • InitResNum • RecvInitFinNum • AuthenReqNum • RegResNum • AddrResNum • NetworkRegResNum • UpdateResNum • HubInfoReqNum • DataFlowInfoReqNum • LogoutResNum • RecvKeepaliveNum • RecvErrorNum • RecvUnkonwnNum	N/A
InitResNum	The number of Initialization response	N/A	Unsigned integer	N/A
RecvInitFinNum	The number of Initialization complete	N/A	Unsigned integer	N/A
AuthenReqNum	The number of Register response	N/A	Unsigned integer	N/A
RegResNum	The number of Authentication request	N/A	Unsigned integer	N/A
AddrResNum	The number of Address resolution response	N/A	Unsigned integer	N/A
NetworkRegResNum	The number of Network registration response	N/A	Unsigned integer	N/A
UpdateResNum	The number of Update response	N/A	Unsigned integer	N/A
HubInfoReqNum	The number of Logout response	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataFlowInfoReqNum	The number of Hub information request	N/A	Unsigned integer	N/A
LogoutResNum	The number of Data flow information request	N/A	Unsigned integer	N/A
RecvKeepaliveNum	The number of Keepalive	N/A	Unsigned integer	N/A
RecvErrorNum	The number of Error notification	N/A	Unsigned integer	N/A
RecvUnkonwnNum	The number of Unkonwn	N/A	Unsigned integer	N/A

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XML structure	4
Table description	4
Columns	4

VAMS

EnableAllDomains

This table is used to enable the VAM server for all ADVPN domains.

XML structure

```
<EnableAllDomains>
  <Enable></Enable>
</EnableAllDomains>
```

Table description

Item	Description
Feature name	VAMS
Table name	EnableAllDomains
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether to enable the VAM server for all ADVPN domains	N/A	Boolean: - true—Enable - false—Disable	Must not be empty.

ResetAllAddressMapInfo

This table is used to clear all private-public address mapping information registered by VAM clients on the VAM server, by specifying the IP version of private addresses.

XML structure

```
<ResetAllAddressMapInfo>
  <Reset>
    <IPVersion></IPVersion>
  </Reset>
</ResetAllAddressMapInfo>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAllAddressMapInfo
Table type	Single-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The IP version of private addresses	N/A	Enumeration: 4—IPv4 6—IPv6	Must not be empty.

ResetAddressMapInfo

This table is used to clear IPv4 private-public address mapping information registered by VAM clients on the VAM server.

XML structure

```
<ResetAddressMapInfo>
  <Reset>
    <IPVersion></IPVersion>
    <AdvpnDomainName></AdvpnDomainName>
    <PrivateAddress></PrivateAddress>
  </Reset>
</ResetAddressMapInfo>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAddressMapInfo
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	The IP version of private addresses	Index	Enumeration: 4—IPv4 6—IPv6	Must not be empty.
AdvpnDomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddress	Private address	N/A	String	If this column is not specified, all map information of the specified ADVPN domain will be deleted.

ResetAllDomainsStats

This table is used to clear statistics about all ADVPN domains on the VAM server.

XML structure

```
<ResetAllDomainsStats>  
  <Reset></Reset>  
</ResetAllDomainsStats>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetAllDomainsStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Reset	Clear all domain statistics on the VAM server	N/A	Must be empty

ResetDomainStats

This table is used to clear statistics about the specified ADVPN domain on the VAM server.

XML structure

```
<ResetDomainStats>
  <Reset>
    <AdvpnDomainName></AdvpnDomainName>
  </Reset>
</ResetDomainStats>
```

Table description

Item	Description
Feature name	VAMS
Table name	ResetDomainStats
Table type	Multi-instance table
Row name	Reset
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvpnDomainName	The ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).

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VAMS

ServerGlobalCfg

This table is used to configure the global configuration of VAM server.

XML structure

```
<ServerGlobalCfg>
  <ListenPort></ListenPort>
</ServerGlobalCfg>
```

Table description

Item	Description
Feature name	VAMS
Table name	ServerGlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ListenPort	The UDP port number for receiving VAM packets	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000

AdvpnDomains

This table is used to configure ADVPN domains on the VAM server.

XML structure

```
<AdvpnDomains>
  <AdvpnDomain>
    <DomainName></DomainName>
    <DomainID></DomainID>
    <AuthenAlgList>
      <AuthenAlgItem></AuthenAlgItem>
```



```

</AuthenAlgList>
<AuthenMethod>
  <Method></Method>
  <ISPName></ISPName>
</AuthenMethod>
<EncryptAlgList>
  <EncryptAlgItem></EncryptAlgItem>
</EncryptAlgList>
<Keepalive>
  <Interval></Interval>
  <RetryTime></RetryTime>
</Keepalive>
<RetryInterval></RetryInterval>
<PreSharedKey>
  <Type></Type>
  <Value></Value>
</PreSharedKey>
<Enable></Enable>
</AdvpnDomain>
</AdvpnDomains>

```

Table description

Item	Description
Feature name	VAMS
Table name	AdvpnDomains
Table type	Multi-instance table
Row name	AdvpnDomain
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
AuthenAlgList	The algorithms for VAM protocol packet authentication	Data structure	Members include: AuthenAlgItem	AuthenAlgItem: the maxOccurs is 5.

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenAlgItem	The algorithm for VAM protocol packet authentication	N/A	Enumeration: 1—NONE 3—MD5 5—SHA-1 6—SHA-256 7—AES-XCBC-MAC	N/A
AuthenMethod	Authentication mode that the VAM server uses to authenticate clients	N/A	Members include: - Method - ISPName	N/A
Method	Authentication method	N/A	Enumeration: 1—None 2—PAP 3—CHAP	The default value is 3. If the value is 1, the ISPName will be ignored.
ISPName	ISP domain for authentication	N/A	String Length: 1 to 24 characters The default is empty	Case-insensitive and can't contain \, , /, :, *, ?, ", <, > and @.
EncryptAlgList	The algorithms for VAM protocol packet encryption	Data structure	Members include: EncryptAlgItem	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: 1—NONE 2—DES-CBC 3—3DES-CBC 4—AES-CBC-128 5—AES-CBC-192 6—AES-CBC-256 7—AES-CTR-128 8—AES-CTR-192 9—AES-CTR-256	N/A
Keepalive	The parameters of keep-alive packet	Data structure	Members include: - Interval - Retry	N/A
Interval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535 The default value is 180	Unit: second.
RetryTime	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6 The default value is 3	N/A
RetryInterval	The time interval for the server resending request packet	N/A	Unsigned integer Value range: 3 to 30 The default value is 5	Unit: second.

Column name	Column description	Column type	Data type and restrictions	Remarks
PreSharedKey	The pre-shared key	Data structure	Members include: - Type - Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: 1—simple 2—cipher	If the Value is empty, the Type will be ignored.
Value	The pre-shared key	N/A	String The default value is empty	The plaintext key is a case-sensitive string of 1 to 31 characters. The ciphertext key is a case-sensitive string of 1 to 73 characters.
Enable	Whether the ADVPN domain is enabled.	N/A	Boolean: - true—Enable - false—Disable	The default value is false.

HubGroups

This table is used to configure hub groups on the VAM server.

XML structure

```

<HubGroups>
  <HubGroup>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <DomainID></DomainID>
    <IPv4Shortcut>
      <Ac lMode></Ac lMode>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </IPv4Shortcut>
    <IPv6Shortcut>
      <Ac lMode></Ac lMode>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </IPv6Shortcut>
  </HubGroup>
</HubGroups>

```

Table description

Item	Description
Feature name	VAMS

Item	Description
Table name	HubGroups
Table type	Multi-instance table
Row name	HubGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
IPv4Shortcut	ACL to control establishing IPv4 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—ByNumber • 2—ByName • 3—All	The default value is 0, which means not specifying the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv4 basic ACLs. 3000 to 3999 for IPv4 advanced ACLs.
AclName	ACL Name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be "all".

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6Shortcut	ACL to control establishing IPv6 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—Number • 2—Name • 3—All	The default value is 0, which means not specifying the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv6 basic ACLs. 3000 to 3999 for IPv6 advanced ACLs.
AclName	ACL Name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be "all".

IPv4Hubs

This table is used to configure the private IPv4 address of hubs on the VAM server.

XML structure

```

<IPv4Hubs>
  <IPv4Hub>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <PrivateAddress></PrivateAddress>
    <DomainID></DomainID>
    <PublicAddress>
      <IPVersion></IPVersion>
      <IPAddress></IPAddress>
    </PublicAddress>
    <AdvpnPort></AdvpnPort>
  </IPv4Hub>
</IPv4Hubs>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Hubs
Table type	Multi-instance table
Row name	IPv4Hub
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	The private IPv4 address of the hub	Index	IPv4 address	Must be an unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
PublicAddress	The public IPv4 address of the hub	Data structure	Members include: - IPVersion - IPAddress	Use IPVersion to specify the IP version of the public address: IPv4, IPv6. Use IPAddress to store the public address. If you are not specify the public address, you can not specify the "PublicAddress" tag , the sub-tag "IPVersion" and "IPAddress".
IPVersion	IP version of the public address	N/A	Enumeration: 4—IPv4 6—IPv6	If IPVersion is 4, the IPAddress is an IPv4 address If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If you are not specify the ADVPN port number, you can not specify the "AdvpnPort" tag.

IPv6Hubs

This table is used to configure the private IPv6 address of hubs on the VAM server.

XML structure

```

<IPv6Hubs>
  <IPv6Hub>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <PrivateAddress></PrivateAddress>
    <DomainID></DomainID>
    <PublicAddress>
      <IPVersion></IPVersion>
      <IPAddress></IPAddress>
    </PublicAddress>
    <AdvpnPort></AdvpnPort>
  </IPv6Hub>
</IPv6Hubs>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Hubs
Table type	Multi-instance table
Row name	IPv6Hub
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).

Column name	Column description	Column type	Data type and restrictions	Remarks
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	The private IPv6 address of the hub	Index	IPv6 address	Must be a global unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public IPv4 address of the hub	Data structure	Members include: - IPVersion - IPAddress	Use IPVersion to specify the IP version of the public address: IPv4, IPv6. Use IPAddress to store the public address. If users are not specify the public address, you can not specify the "PublicAddress" tag , the sub-tag "IPVersion" and "IPAddress".
IPVersion	IP version of public address	N/A	Enumeration: 4—IPv4 6—IPv6	If IPVersion is 4, the IPAddress is an IPv4 address If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If you are not specify the ADVPN port number, you can not specify the "AdvpnPort" tag.

IPv4Spokes

This table is used to configure the private IPv4 address range of spokes on the VAM server.

XML structure

```

<IPv4Spokes>
  <IPv4Spoke>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <StartIPv4Address></StartIPv4Address>
    <EndIPv4Address></EndIPv4Address>
    <DomainID></DomainID>
  </IPv4Spoke>

```


</IPv4Spokes>

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Spokes
Table type	Multi-instance table
Row name	IPv4Spoke
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv4Address	The start IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.1.
EndIPv4Address	The end IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv6Spokes

This table is used to configure the private IPv6 address range of spokes on the VAM server.

XML structure

```
<IPv6Spokes>
  <IPv6Spoke>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <StartIPv6Address></StartIPv6Address>
    <EndIPv6Address></EndIPv6Address>
    <DomainID></DomainID>
  </IPv6Spoke>
</IPv6Spokes>
```

</IPv6Spokes>

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Spokes
Table type	Multi-instance table
Row name	IPv6Spoke
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv6Address	The start IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:1.
EndIPv6Address	The end IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

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VAMS

VamsGlbStats

This table displays the global configuration of VAM server.

XML structure

```
<VamsGlbStats>
  <TotalAdvpnNum></TotalAdvpnNum>
  <TotalSpokeNum></TotalSpokeNum>
  <TotalHubNum></TotalHubNum>
</VamsGlbStats>
```

Table description

Item	Description
Feature name	VAMS
Table name	VamsGlbStats
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
TotalAdvpnNum	Total number of configured ADVPN domains	N/A	Unsigned integer Value range: 0 to 65535
TotalSpokeNum	Total number of configured spokes	N/A	Unsigned integer Value range: 0 to 65535
TotalHubNum	Total number of configured hubs	N/A	Unsigned integer Value range: 0 to 65535

ServerGlobalCfg

This table displays the global configuration of the VAM server.

XML structure

```
<ServerGlobalCfg>
```

```

    <ListenPort></ListenPort>
</ServerGlobalCfg>

```

Table description

Item	Description
Feature name	VAMS
Table name	ServerGlobalCfg
Table type	Multi -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ListenPort	The UDP port number for receiving VAM packets	N/A	Unsigned integer Value range: 1025 to 65535 The default value is 18000	N/A

AdvpnDomains

This table displays ADVPN domains configuration on the VAM server.

XML structure

```

<AdvpnDomains>
  <AdvpnDomain>
    <DomainName></DomainName>
    <DomainID></DomainID>
    <AuthenAlgList>
      <AuthenAlgItem></AuthenAlgItem>
    </AuthenAlgList>
    <AuthenMethod>
      <Method></Method>
      <ISPName></ISPName>
    </AuthenMethod>
    <EncryptAlgList>
      <EncryptAlgItem></EncryptAlgItem>
    </EncryptAlgList>
    <Keepalive>
      <Interval></Interval>
      <RetryTime></RetryTime>
    </Keepalive>
  </AdvpnDomain>
</AdvpnDomains>

```

```

    <RetryInterval></RetryInterval>
    <PreSharedKey>
      <Type></Type>
      <Value></Value>
    </PreSharedKey>
    <Enable></Enable>
  </AdvpnDomain>
</AdvpnDomains>

```

Table description

Item	Description
Feature name	VAMS
Table name	AdvpnDomains
Table type	Multi-instance table
Row name	AdvpnDomain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
AuthenAlgList	The algorithms for VAM protocol packet authentication	Data structure	Members include: AuthenAlgItem	AuthenAlgItem: the maxOccurs is 5.
AuthenAlgItem	The algorithm for VAM protocol packet authentication	N/A	Enumeration: 1—NONE 3—MD5 5—SHA-1 6—SHA-256 7—AES-XCBC-MAC	N/A
AuthenMethod	Authentication mode that the VAM server uses to authenticate clients	N/A	Members include: - Method - ISPNName	N/A
Method	Authentication method	N/A	Enumeration: 1—None 2—PAP 3—CHAP	The default value is 3. If the value is 1, the ISPNName will be ignored.

Column name	Column description	Column type	Data type and restrictions	Remarks
ISPName	ISP domain for authentication	N/A	String Length: 1 to 24 characters The default is empty.	Case-insensitive and cannot contain \, , /, :, *, ?, ", <, > and @.
EncryptAlgList	The algorithms for VAM protocol packet encryption	Data structure	Members include: EncryptAlgItem	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: 1—NONE 2—DES-CBC 3—3DES-CBC 4—AES-CBC-128 5—AES-CBC-192 6—AES-CBC-256 7—AES-CTR-128 8—AES-CTR-192 9—AES-CTR-256	N/A
Keepalive	The parameters of keep-alive packet	Data structure	Members include: - Interval - Retry	N/A
Interval	The keepalive interval	N/A	Unsigned integer Value range: 5 to 65535 The default value is 180	Unit: second.
RetryTime	The maximum number of keepalive retries	N/A	Unsigned integer Value range: 1 to 6 The default value is 3	N/A
RetryInterval	The time interval for the server resending request packet	N/A	Unsigned integer Value range: 3 to 30 The default value is 5	Unit: second.
PreSharedKey	The pre-shared key	Data structure	Members include: - Type - Value	N/A
Type	The form of pre-shared key	N/A	Enumeration: 1—simple 2—cipher	This column will not return to user.
Value	The pre-shared key	N/A	String	This column will not return to user.
Enable	The status of advpn domain	N/A	Boolean: - true—Enabled - false—Disabled	The default value is false.

DomainStats

This table displays the ADVPN domain statistics.

XML structure

```
<AdvpnDomainStats>
  <DomainStats>
    <DomainName></DomainName>
    <ServerStatus></ServerStatus>
    <HoldingTime></HoldingTime>
    <RegSpokeNumber></RegSpokeNumber>
    <RegHubNumber></RegHubNumber>
    <RegIPv4AddrMapNum></RegIPv4AddrMapNum>
    <RegIPv6AddrMapNum></RegIPv6AddrMapNum>
    <RegIPv4NetworkNum></RegIPv4NetworkNum>
    <RegIPv6NetworkNum></RegIPv6NetworkNum>
    <PacketsReceived>
      <InitReqTimes></InitReqTimes>
      <InitFinReqTimes></InitFinReqTimes>
      <RegReqTimes></RegReqTimes>
      <AuthenInfoTimes></AuthenInfoTimes>
      <AddrResolveReqTimes></AddrResolveReqTimes>
      <NetworkRegReqTimes></NetworkRegReqTimes>
      <UpdateReqTimes></UpdateReqTimes>
      <LogoutReqTimes></LogoutReqTimes>
      <HubInfoResTimes></HubInfoResTimes>
      <DataFlowInfoResTimes></DataFlowInfoResTimes>
      <RecvKeepReqTimes></RecvKeepReqTimes>
      <RecvErrNoticeTimes></RecvErrNoticeTimes>
      <RecvUnkonwnTimes></RecvUnkonwnTimes>
    </PacketsReceived>
    <PacketsSend>
      <InitResTimes></InitResTimes>
      <InitFinResTimes></InitFinResTimes>
      <AuthenReqTimes></AuthenReqTimes>
      <RegResTimes></RegResTimes>
      <AddrResolveResTimes></AddrResolveResTimes>
      <NetworkRegResTimes></NetworkRegResTimes>
      <UpdateResTimes></UpdateResTimes>
      <HubInfoReqTimes></HubInfoReqTimes>
      <DataFlowInfoReqTimes></DataFlowInfoReqTimes>
      <LogoutResTimes></LogoutResTimes>
      <SendKeepResTimes></SendKeepResTimes>
      <SendErrNoticeTimes></SendErrNoticeTimes>
    </PacketsSend>
  </DomainStats>
</AdvpnDomainStats>
```


Table description

Item	Description
Feature name	VAMS
Table name	DomainStats
Table type	Multi-instance table
Row name	Domain
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
ServerStatus	Whether the VAM server is enabled	N/A	Boolean: • true—Enabled • false—Disabled	N/A
HoldingTime	Duration time that elapses after the VAM service is enabled	N/A	Unsigned integer	Unit: second
RegSpokeNumber	The number of spoke registered in a ADVPN domain	N/A	Unsigned integer	N/A
RegHubNumber	The number of hub registered in a ADVPN domain	N/A	Unsigned integer	N/A
RegIPv4AddressMapNumber	Total number of IPv4 private address mappings	N/A	Unsigned integer	N/A
RegIPv6AddressMapNumber	Total number of IPv6 private address mappings	N/A	Unsigned integer	N/A
RegIPv4NetworkNumber	Total number of IPv4 private networks	N/A	Unsigned integer	N/A
RegIPv6NetworkNumber	Total number of IPv6 private networks	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketsReceived	The number of received packets	Data structure	Members include: • InitReqTimes • InitFinReqTimes • RegReqTimes • AuthenInfoTimes • AddrResolveReqTimes • NetworkRegReqTimes • UpdateReqTimes • LogoutReqTimes • HubInfoResTimes • DataFlowInfoResTimes • RecvKeepReqTimes • RecvErrNoticeTimes • RecvUnkonwnTimes	N/A
InitReqTimes	The number of initialization request packets	N/A	Unsigned integer	N/A
InitFinReqTimes	The number of initialization complete packets	N/A	Unsigned integer	N/A
RegReqTimes	The number of register request packets	N/A	Unsigned integer	N/A
AuthenInfoTimes	The number of authentication information request packets	N/A	Unsigned integer	N/A
AddrResolveReqTimes	The number of address resolution request packets	N/A	Unsigned integer	N/A
NetworkRegReqTimes	The number of network registration request packets	N/A	Unsigned integer	N/A
UpdateReqTimes	The number of update request packets	N/A	Unsigned integer	N/A
LogoutReqTimes	The number of logout request packets	N/A	Unsigned integer	N/A
HubInfoResTimes	The number of hub information response packets	N/A	Unsigned integer	N/A
DataFlowInfoResTimes	The number of data flow information response packets	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RecvKeepReqTimes	The number of received keepalive packets	N/A	Unsigned integer	N/A
RecvErrNoticeTimes	The number of received error notification packets	N/A	Unsigned integer	N/A
RecvUnknownTimes	The number of received unknown packets	N/A	Unsigned integer	N/A
PacketsSend	The number of sent packets	Data structure	Members include: • InitResTimes • InitFinResTimes • AuthenReqTimes • RegResTimes • AddrResolveResTimes • NetworkRegResTimes • UpdateResTimes • HubInfoReqTimes • DataFlowInfoReqTimes • LogoutResTimes • SendKeepResTimes • SendErrNoticeTimes	N/A
InitResTimes	The number of initialization response packets	N/A	Unsigned integer	N/A
InitFinResTimes	The number of initialization complete packets	N/A	Unsigned integer	N/A
AuthenReqTimes	The number of authentication request packets	N/A	Unsigned integer	N/A
RegResTimes	The number of register response packets	N/A	Unsigned integer	N/A
AddrResolveResTimes	The number of address resolution response packets	N/A	Unsigned integer	N/A
NetworkRegResTimes	The number of network registration response packets	N/A	Unsigned integer	N/A
UpdateResTimes	The number of update response packets	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HubInfoReqTimes	The number of hub information request packets	N/A	Unsigned integer	N/A
DataFlowInfoReqTimes	The number of data flow information request packets	N/A	Unsigned integer	N/A
LogoutResTimes	The number of logout response packets	N/A	Unsigned integer	N/A
SendKeepResTimes	The number of send keepalive packets	N/A	Unsigned integer	N/A
SendErrNoticeTimes	The number of send error notification packets	N/A	Unsigned integer	N/A

HubGroups

This table displays hub groups configuration on the VAM server.

XML structure

```

<HubGroups>
  <HubGroup>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <DomainID></DomainID>
    <IPv4Shortcut>
      <Ac lMode></Ac lMode>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </IPv4Shortcut>
    <IPv6Shortcut>
      <Ac lMode></Ac lMode>
      <Ac lNum></Ac lNum>
      <Ac lName></Ac lName>
    </IPv6Shortcut>
  </HubGroup>
</HubGroups>

```

Table description

Item	Description
Feature name	VAMS

Item	Description
Table name	HubGroups
Table type	Multi-instance table
Row name	HubGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String. Length: 1 to 31 characters.	Case-insensitive and contains only letters, digits, and dots (.).
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.
IPv4Shortcut	ACL to control establishing IPv4 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A
AclMode	ACL mode	N/A	Enumeration: • 0—None • 1—ByNumber • 2—ByName • 3—All	The default value is 0, which means not specifying the IPv4 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv4 basic ACLs. 3000 to 3999 for IPv4 advanced ACLs.
AclName	ACL name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be "all".
IPv6Shortcut	ACL to control establishing IPv6 spoke-to-spoke tunnels	Data structure	Members include: • AclMode • AclNum • AclName	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclMode	ACL mode	N/A	Enumeration: 0—None 1—Number 2—Name 3—All	The default value is 0, which means not specifying the IPv6 shortcut interest. If the value is 3, the AclRule will be ignored. If the value is 1, AclNum works, AclName will be ignored. If the value is 2, AclName works, AclNum will be ignored.
AclNum	ACL number	N/A	Unsigned integer Value range: 2000 to 3999	2000 to 2999 for IPv6 basic ACLs. 3000 to 3999 for IPv6 advanced ACLs.
AclName	ACL name	N/A	String. The default is empty.	Name: It must start with an English letter and to avoid confusion, it cannot be "all".

IPv4Hubs

This table displays the private IPv4 address configuration of hubs on the VAM server.

XML structure

```

<IPv4Hubs>
  <IPv4Hub>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <PrivateAddress></PrivateAddress>
    <DomainID></DomainID>
    <PublicAddress>
      <IPVersion></IPVersion>
      <IPAddress></IPAddress>
    </PublicAddress>
    <AdvpnPort></AdvpnPort>
  </IPv4Hub>
</IPv4Hubs>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Hubs

Item	Description
Table type	Multi-instance table
Row name	IPv4Hub
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	The private IPv4 address of the hub	Index	IPv4 address	Must be an unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public IPv4 address of the hub	Data structure	Members include: - IPVersion - IPAddress	If users are not specify the public address, this tag and its sub-tags will not display to user.
IPVersion	IP version of public address	N/A	Enumeration: 4—IPv4 6—IPv6	Use IPVersion to display the IP version of the public address. If IPVersion is 4, the IPAddress is an IPv4 address. If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If users are not specify the ADVPN port number, the VAM server uses the port number registered by the hub.

IPv6Hubs

This table displays the private IPv6 address configuration of hubs on the VAM server.

XML structure

```
<IPv6Hubs>
  <IPv6Hub>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <PrivateAddress></PrivateAddress>
    <DomainID></DomainID>
    <PublicAddress>
      <IPVersion></IPVersion>
      <IPAddress></IPAddress>
    </PublicAddress>
    <AdvpnPort></AdvpnPort>
  </IPv6Hub>
</IPv6Hubs>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Hubs
Table type	Multi-instance table
Row name	IPv6Hub
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	The private IPv6 address of the hub	Index	IPv6 address	Must be a global unicast address.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when create an ADVPN domain.
PublicAddress	The public IPv4 address of the hub	Data structure	Members include: • IPVersion • IPAddress	If users are not specify the public address, this tag and its sub-tags will not display to user.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPVersion	IP version of public address	N/A	Enumeration: 4—IPv4 6—IPv6	Use IPVersion to display the IP version of the public address. If IPVersion is 4, the IPAddress is an IPv4 address. If IPVersion is 6, the IPAddress is an IPv6 address.
IPAddress	Public IP address	N/A	String. The default is empty.	IPv4 Address IPv6 Address
AdvpnPort	The ADVPN port number of the hub	N/A	Unsigned integer Value range: 1025 to 65535	If users are not specify the ADVPN port number, the VAM server uses the port number registered by the hub.

IPv4Spokes

This table displays the private IPv4 address range configuration of spokes on the VAM server.

XML structure

```

<IPv4Spokes>
  <IPv4Spoke>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <StartIPv4Address></StartIPv4Address>
    <EndIPv4Address></EndIPv4Address>
    <DomainID></DomainID>
  </IPv4Spoke>
</IPv4Spokes>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4Spokes
Table type	Multi-instance table
Row name	IPv4Spoke
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv4Address	The start IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.1.
EndIPv4Address	The end IPv4 address	Index	IPv4 address.	IPv4 address example: 1.1.1.100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv6Spokes

This table displays the private IPv6 address range of spokes on the VAM server.

XML structure

```
<IPv6Spokes>
  <IPv6Spoke>
    <DomainName></DomainName>
    <HubGroupName></HubGroupName>
    <StartIPv6Address></StartIPv6Address>
    <EndIPv6Address></EndIPv6Address>
    <DomainID></DomainID>
  </IPv6Spoke>
</IPv6Spokes>
```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6Spokes
Table type	Multi-instance table
Row name	IPv6Spoke
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
HubGroupName	Hub group name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
StartIPv6Address	The start IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:1.
EndIPv6Address	The end IPv6 address	Index	IPv6 address	IPv6 address example: 1:1::1:100.
DomainID	The ID of an ADVPN domain.	N/A	Unsigned integer Value range: 1 to 65535	An unique ID must be specified when you create an ADVPN domain.

IPv4AddressMaps

This table displays IPv4 private-public address mapping information

XML structure

```

<IPv4AddressMaps>
  <IPv4AddressMap>
    <DomainName></DomainName>
    <PrivateAddress></PrivateAddress>
    <ClientType></ClientType>
    <HubGroupName></HubGroupName>
    <HoldingTime></HoldingTime>
    <LinkProtocol></LinkProtocol>
    <PublicAddress></PublicAddress>
    <PublicPort></PublicPort>
    <RegisteredAddress></RegisteredAddress>
    <RegisteredPort></RegisteredPort>
    <IPsecAddress></IPsecAddress>
    <IPsecPort></IPsecPort>
    <BehindNAT></BehindNAT>
  </IPv4AddressMap>
</IPv4AddressMaps>

```

Table description

Item	Description
Feature name	VAMS

Item	Description
Table name	IPv4AddressMaps
Table type	Multi-instance table
Row name	IPv4AddressMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name.	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	Private IPv4 address that the VAM client has registered with the VAM server	Index	IPv4 address	N/A
ClientType	VAM client type	N/A	Enumeration: 0—Unknown 1—Spoke 2—Hub	N/A
HubGroupName	Hub group to which the VAM client belongs	N/A	String Length: 1 to 31 characters	N/A
HoldingTime	Duration time that elapses since the VAM client successfully registered with the server	N/A	Unsigned integer The default value is 0	Unit: second
LinkProtocol	Link layer protocol used by the VAM client for ADVPN tunnel establishment	N/A	Enumeration: 0—Unknown 1—GRE 2—UDP 3—IPsec-GRE 4—IPsec-UDP	N/A
PublicAddress	VAM client's public IP address that has been NATed	N/A	String	N/A
PublicPort	VAM client's ADVPN port number that has been NATed	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegisteredAddress	Public address that the VAM client has registered with the VAM server	N/A	String	N/A
RegisteredPort	ADVPN port number that the VAM client has registered with the VAM server	N/A	Unsigned integer. Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
IPsecAddress	IP address used by the VAM client for IPsec tunnel establishment	N/A	String	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
IPsecPort	UDP port number used by the VAM client for IPsec tunnel establishment	N/A	Unsigned integer. Value range: 1025 to 65535	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
BehindNAT	Whether the registered client is behind a NAT	N/A	Boolean: - true—Yes - false—No	N/A

IPv6AddressMaps

This table displays IPv6 private-public address mapping information.

XML structure

```

<IPv6AddressMaps>
  <IPv6AddressMap>
    <DomainName></DomainName>
    <PrivateAddress></PrivateAddress>
    <HubGroupName></HubGroupName>
    <ClientType></ClientType>
    <HoldingTime></HoldingTime>
    <LinkProtocol></LinkProtocol>
    <PublicAddress></PublicAddress>
    <PublicPort></PublicPort>
    <RegisteredAddress></RegisteredAddress>
    <RegisteredPort></RegisteredPort>
    <IPsecAddress></IPsecAddress>
    <IPsecPort></IPsecPort>
    <BehindNAT></BehindNAT>
  </IPv6AddressMap>
</IPv6AddressMaps>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv6AddressMaps
Table type	Multi-instance table
Row name	IPv6AddressMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
PrivateAddresses	Private IPv6 address that the VAM client has registered with the VAM server	Index	IPv6 address	N/A
HubGroupName	Hub group to which the VAM client belongs	N/A	String. Length: 1 to 31 characters	N/A
ClientType	VAM client type	N/A	Enumeration: 1—Spoke 2—Hub	N/A
HoldingTime	Duration time that elapses since the VAM client successfully registered with the server	N/A	Unsigned integer The default value is 0	Unit: seconds
LinkProtocol	Link layer protocol used by the VAM client for ADVPN tunnel establishment	N/A	Enumeration: 1—GRE 2—UDP 3—IPsec-GRE 4—IPsec-UDP	N/A
PublicAddress	VAM client's public IP address that has been NATed	N/A	String	N/A
PublicPort	VAM client's ADVPN port number that has been NATed	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.

Column name	Column description	Column type	Data type and restrictions	Remarks
RegisteredAddress	Public address that the VAM client has registered with the VAM server	N/A	String	N/A
RegisteredPort	ADVPN port number that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is UDP or IPsec-UDP.
IPsecAddress	IP address used by the VAM client for IPsec tunnel establishment	N/A	String	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
IPsecPort	UDP port number used by the VAM client for IPsec tunnel establishment	N/A	Unsigned integer Value range: 1025 to 65535	This field is displayed when the Link protocol is IPsec-UDP or IPsec-GRE.
BehindNAT	Whether the registered client is behind a NAT	N/A	Boolean: - true—Yes - false—No	N/A

IPv4NetworkRoutes

This table displays the IPv4 private networks for VAM clients registered with the VAM server.

XML structure

```

<IPv4NetworkRoutes>
  <IPv4NetworkRoute>
    <DomainName></DomainName>
    <NetworkAddress></NetworkAddress>
    <MaskLength></MaskLength>
    <PrivateAddress></PrivateAddress>
    <Preference></Preference>
  </IPv4NetworkRoute>
</IPv4NetworkRoutes>

```

Table description

Item	Description
Feature name	VAMS
Table name	IPv4NetworkRoutes
Table type	Multi-instance table

Item	Description
Row name	IPv4NetworkRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
NetworkAddress	Private IPv4 network address for an ADVPN tunnel interface	Index	IPv4 address	N/A
MaskLength	Private IPv4 network mask length for an ADVPN tunnel interface	Index	Unsigned integer Value range: 0 to 32	N/A
PrivateAddress	Private IPv4 address that the VAM client has registered with the VAM server	Index	IPv4 address	N/A
Preference	Preference of the private route that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1 to 255 The default is 8	N/A

IPv6NetworkRoutes

This table displays the IPv6 private networks for VAM clients registered with the VAM server.

XML structure

```

<IPv6NetworkRoutes>
  <IPv6NetworkRoute>
    <DomainName></DomainName>
    <NetworkAddress></NetworkAddress>
    <MaskLength></MaskLength>
    <PrivateAddress></PrivateAddress>
    <Preference></Preference>
  </IPv6NetworkRoute>
</IPv6NetworkRoutes>

```


Table description

Item	Description
Feature name	VAM
Table name	IPv6NetworkRoutes
Table type	Multi-instance table
Row name	IPv6NetworkRoute
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	ADVPN domain name	Index	String Length: 1 to 31 characters	Case-insensitive and contains only letters, digits, and dots (.).
NetworkAddress	Private IPv6 network address for an ADVPN tunnel interface	Index	IPv6 address.	N/A
MaskLength	Private IPv6 network prefix length for an ADVPN tunnel interface.	Index	Unsigned integer Value range: 0 to 128	N/A
PrivateAddresses	Private IPv6 address that the VAM client has registered with the VAM server	N/A	IPv6 address	N/A
Preference	Preference of the private route that the VAM client has registered with the VAM server	N/A	Unsigned integer Value range: 1 to 255 The default is 8	N/A

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 - XML structure1
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VBR

VBR/PE/SetConfiguration

This table contains PEX local forwarding capability information on a PEX.

XML structure

```
<VBR>
  <PE>
    <SetConfiguration>
      <LocalForwarding></LocalForwarding>
      <ShutdownIfWhenOffline></ShutdownIfWhenOffline>
    </SetConfiguration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	SetConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • true. • false (default).	N/A
ShutdownIfWhenOffline	Whether all user-side ports will be shut down when the PEX is offline.	N/A	Boolean: • true. • false (default).	N/A

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VBR

VBR/CB/Groups

This table contains PEX group information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <Groups>
      <Group>
        <ID></ID>
        <Description></Description>
      </Group>
    </Groups>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	PEX group ID.	index	Unsigned integer.	N/A
Description	PEX group description.	N/A	String, case-insensitive. Length: 1 to 79 characters. Default: PEX group XXX (XXX represents the PEX group ID).	N/A

VBR/CB/CascadePorts

This table contains cascade port configuration information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <CascadePorts>
      <CascadePort>
        <IfIndex></IfIndex>
        <Group></Group>
        <Associate></Associate>
        <LocalForwarding></LocalForwarding>
        <ShutdownIfWhenPEOffline></ShutdownIfWhenPEOffline>
      </CascadePort>
    </CascadePorts>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	CascadePorts
Table type	Multi-instance table
Row name	CascadePort
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Aggregate interface index.	index	Unsigned integer.	Some versions support interface name. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
Group	PEX group ID.	N/A	Unsigned integer.	If this column has a valid value, the PEX connection capability of the aggregate interface is enabled. In other situations, the PEX connection capability of the aggregate interface is not enabled.
Associate	Associated virtual chassis number or slot number of the PEX port.	N/A	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • true. • false (default).	N/A
ShutdownIfWhenPEOffline	Whether all user-side ports on the PEX will be shut down when the PEX is offline.	N/A	Boolean: • true • false (default).	N/A

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XML structure	2
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Columns	3

VBR

VBR/PE/SetConfiguration

This table contains PEX local forwarding capability information on a PEX.

XML structure

```
<VBR>
  <PE>
    <SetConfiguration>
      <LocalForwarding></LocalForwarding>
      <ShutdownIfWhenOffline></ShutdownIfWhenOffline>
    </SetConfiguration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	SetConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: true—Enabled. false—Not enabled.	N/A
ShutdownIfWhenOffline	Whether all user-side ports will be shut down when the PEX is offline.	N/A	Boolean: true—Shut down. false—Not shut down.	N/A

VBR/CB/Groups

This table contains PEX group information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <Groups>
      <Group>
        <ID></ID>
        <Description></Description>
      </Group>
    </Groups>
  </CB>
</VBR>
```

Table description

Item	Description
Feature name	VBR
Table name	Groups
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	PEX group ID.	index	Unsigned integer.	N/A
Description	PEX group description.	N/A	String, case-insensitive. Length: 1 to 79	N/A

VBR/CB/CascadePorts

This table contains cascade port configuration information on the parent fabric.

XML structure

```
<VBR>
  <CB>
    <CascadePorts>
      <CascadePort>
        <IfIndex></IfIndex>
        <Group></Group>
        <Associate></Associate>
```

```

        <LocalForwarding></LocalForwarding>
        <ShutdownIfWhenPEOffline></ShutdownIfWhenPEOffline>
    </CascadePort>
</CascadePorts>
</CB>
</VBR>

```

Table description

Item	Description
Feature name	VBR
Table name	CascadePorts
Table type	Multi-instance table
Row name	CascadePort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Aggregate interface index.	index	Unsigned integer.	Some versions support interface name. For more information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Group	PEX group ID.	N/A	Unsigned integer.	If this column has a valid value, the PEX connection capability of the aggregate interface is enabled. In other situations, the PEX connection capability of the aggregate interface is not enabled.
Associate	Associated virtual chassis number or slot number of the PEX port.	N/A	Unsigned integer.	For distributed parent devices, this object represents the virtual chassis number. For centralized parent devices, this object represents the virtual slot number.

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalForwarding	Whether PEX local forwarding capability is enabled.	N/A	Boolean: • true—Enabled. • false—Not enabled.	N/A
ShutdownIfWhenPEOffline	Whether all user-side ports on the PEX will be shut down when the PEX is offline.	N/A	Boolean: • true—Shut down. • false—Not shut down.	N/A

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VLAN

VLAN/BatchVLANs

This table is used to batch create or delete VLANs.

XML structure

```
<VLAN>
  <BatchVlans>
    <CreateVlanList></CreateVlanList>
    <DestroyVlanList></DestroyVlanList>
  </BatchVlans>
</VLAN>
```

Response XML structure

```
<VLAN>
  <BatchVlans>
    <CreateVlanList></CreateVlanList>
    <DestroyVlanList></DestroyVlanList>
  </BatchVlans>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	BatchVlans
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Data type and restrictions	Remarks
CreateVlanList	List of VLANs to create	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20.
DestoryVlanList	List of VLANs to delete	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20.

Responded columns

Column name	Column description	Data type and restrictions	Remarks
CreateVlanList	List of VLANs that have been created successfully	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20. Responded only when CreateVlanList is submitted.
DestoryVlanList	List of VLANs that have been deleted successfully	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string must not end with a comma or hyphen, or include any whitespace characters.	Example: 2,3,5-8,10-20. Responded only when DestoryVlanList is submitted.

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XML structure	15
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XML structure	20
Table description	20
Columns	20
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XML structure	20
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VLAN

VLAN/VLANs

This table contains basic VLAN information.

XML structure

```
<VLAN>
  <VLANs>
    <VLANID>
      <ID></ID>
      <Description></Description>
      <Name></Name>
      <AccessPortList></AccessPortList>
      <Ipv4>
        <Ipv4Address></Ipv4Address>
        <Ipv4Mask></Ipv4Mask>
      </Ipv4>
    </VLANID>
  </VLANs>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLANID
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	VLAN description	N/A	String. Length: 1 to 255 characters. Default: VLAN <i>vlan-id</i> .	Example: VLAN 0001.

Column name	Column description	Column type	Data type and restrictions	Remarks
			The <i>vlan id</i> argument uses the four-digit form. If the VLAN ID has less than four digits, leading zeros are added.	
Name	VLAN name	N/A	String. Length: 1 to 32 characters. Default: VLAN <i>vlan-id</i> . The <i>vlan id</i> argument uses the four-digit form. If the VLAN ID has less than four digits, leading zeros are added.	Example: VLAN 0001.
AccessPortList	Access port list of the VLAN	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a VLAN does not have an access port list.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table.
Ipv4	IPv4 address of the VLAN interface	Data structure	Members include: - Ipv4Address. - Ipv4Mask.	You must configure both the IP address and mask if the operation is merge , create , or replace . You can configure only the IP address if the operation is delete or remove .
Ipv4Address	IPv4 address of the VLAN interface	N/A	String, dotted decimal notation.	Example: 1.1.1.1. When you perform the merge , create , or replace operation, the system creates the VLAN interface automatically if the VLAN interface has not been created.
Ipv4Mask	IPv4 address mask	N/A	String, dotted decimal notation.	Example: 55.255.255.0.

VLAN/AccessInterfaces

This table contains information about Access ports.

XML structure

```
<VLAN>
  <AccessInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PVID></PVID>
    </Interface>
  </AccessInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	AccessInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/TrunkInterfaces

This table contains information about Trunk ports.

XML structure

```
<VLAN>
  <TrunkInterfaces>
    <Interface>
```

```

    <IfIndex></IfIndex>
    <PermitVlanList></PermitVlanList>
    <PVID></PVID>
  </Interface>
</TrunkInterfaces>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	TrunkInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The item is permitted to incremental edit. You can sign the flag like "<PermitVlanList base:incremental='true'>". If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/HybridInterfaces

This table contains information about Hybrid ports.

XML structure

```
<VLAN>
  <HybridInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
      <PVID></PVID>
    </Interface>
  </HybridInterfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	HybridInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Do not specify a VLAN both in this column and the TaggedVlanList column. The item is permitted to incremental edit. You can sign the flag like "<UntaggedVlanList base:incremental='true'>". If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
TaggedVlanList	List of VLANs to	N/A	Number string.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
	which the port is assigned as a tagged VLAN member		It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	Do not specify a VLAN both in this column and the UntaggedVlanList column. The item is permitted to incremental edit. You can sign the flag like "<TaggedVlanList base:incremental='true'>". If the value is true, the vlan list will be added or removed. Otherwise, it is the final result.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/QinQ

This table contains QinQ information of all ports.

XML structure

```

<VLAN>
  <QinQ>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
  </QinQ>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	QinQ
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTPID	TPID value in the service VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType

Column name	Column description	Column type	Data type and restrictions	Remarks
				values listed in Table 1 .
CustomerTPID	TPID value in the customer VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1 .

Table 1 Reserved EtherType values

Protocol type	Value
ARP	2054
PUP	512
RARP	32821
IP	2048
IPv6	34525
PPPoE	34915/34916
MPLS	34887/34888
IPX/SPX	33079
IS-IS	32768
LACP	34825
LLDP	35020
802.1X	34958
802.1ag	35074
Cluster	34983
Reserved	65533/65534/65535

VLAN/QinQPorts

This table contains QinQ information for a port.

XML structure

```

<VLAN>
  <QinQPorts>
    <Interface>
      <IfIndex></IfIndex>
      <QinQ></QinQ>
      <ServiceTPID></ServiceTPID>
      <CustomerTPID></CustomerTPID>
      <TransVlanList></TransVlanList>
    </Interface>
  </QinQPorts>
</VLAN>

```


Table description

Item	Description
Feature name	VLAN
Table name	QinQPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
QinQ	Whether QinQ is enabled on the port.	N/A	Boolean: true false	N/A
ServiceTPID	TPID value in the service VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1 .
CustomerTPID	TPID value in the customer VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	Excluding the reserved EtherType values listed in Table 1 .
TransVlanList	List of transparent VLANs on the port.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. This VLANs cannot exist in CustomerOuterVlan on table VLAN/VLANMapping.

VLAN/VLANnetworkNto1mapping

This table contains network-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANnetworkNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <NNI></NNI>
    </Interface>
  </VLANnetworkNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANnetworkNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
			•	
			•	
NNI	Whether the network-side interface for VLAN mapping is enabled on the port.	N/A	Boolean: • true • false	N/A

VLAN/VLAN1to1mapping

This table contains VLAN one-to-one mapping information.

XML structure

```
<VLAN>
  <VLAN1to1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalVlan></OriginalVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLAN1to1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1to1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OriginalVlan	Original VLAN for one to one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for one to one mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

VLAN/VLANUserNto1mapping

This table contains user-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANUserNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalStartVlan></OriginalStartVlan>
      <OriginalEndVlan></OriginalEndVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLANUserNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANUserNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OriginalStartVlan	Start VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Original EndVlan	End VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for many-to-one VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN1to2mapping

This table contains one-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN1to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <CustomerStartVlan></CustomerStartVlan>
      <CustomerEndVlan></CustomerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN1to2mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1To2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CustomerStartVlan	Start VLAN of the customer VLAN for one-to-two vlan mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
CustomerEndVlan	End VLAN of the customer VLAN for one-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NestedVlan	Nest VLAN for one-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to2mapping

This table contains VLAN two-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN2to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterVlan></OuterVlan>
      <InnerVlan></InnerVlan>
      <TranslatedOuterVlan></TranslatedOuterVlan>
      <TranslatedInnerVlan></TranslatedInnerVlan>
    </Interface>
  </VLAN2to2mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OuterVlan	Outer VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerVlan	Inner VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedOuterVlan	Translated outer VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedInnerVlan	Translated inner VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN0to2mapping

This table contains zero-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN0to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <ServiceOuterVlan></ServiceOuterVlan>
      <ServiceInnerVlan></ServiceInnerVlan>
    </Interface>
  </VLAN0to2mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN0to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
ServiceOuterVlan	Outer service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
ServiceInnerVlan	Inner service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to3mapping

This table contains two-to-three VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN2to3mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterStartVlan></OuterStartVlan>
      <OuterEndVlan></OuterEndVlan>
      <InnerStartVlan></InnerStartVlan>
      <InnerEndVlan></InnerEndVlan>
      <NestedVlan></NestedVlan>
```



```

    </Interface>
  </VLAN2to3mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to3mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OuterStartVlan	Start VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OuterEndVlan	End VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
InnerStartVlan	Start VLAN of the inner vlan for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerEndVlan	End VLAN of the inner VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
NestedVlan	Nest VLAN for two-to-three VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VoiceInfo

This table contains voice VLAN information.

XML structure

```
<VLAN>
  <VoiceInfo>
    <AgingTime></AgingTime>
    <LLDPTrack></LLDPTrack>
    <Mode></Mode>
  </VoiceInfo>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Voice VLAN aging time.	N/A	Unsigned integer, in minutes. Value range: 5 to 43200 minutes.	By default, the aging time is 1440 minutes.
LLDPTrack	Whether LLDP is enabled for automatic IP phone discovery.	N/A	Boolean: • true • false	N/A
Mode	Voice VLAN security mode.	N/A	Enumeration: • 1—Security. • 2—Normal.	By default, the voice VLAN security mode is enabled.

VLAN/VoiceOUI

This table contains voice VLAN OUI address information.

XML structure

```
<VLAN>
  <VoiceOUI>
    <OUI>
      <Address></Address>
      <Mask></Mask>
      <Description></Description>
    </OUI>
  </VoiceOUI>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceOUI
Table type	Multi-instance table
Row name	OUI
Restrictions	This table does not support merge, replace, remove operations.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Source MAC address of voice traffic	Index	Six groups of two hexadecimal digits, hyphen-separated.	For example, 12-34-12-34-12-34.
Mask	Valid length of the OUI address by a mask.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	The mask contains consecutive 1s and 0s. For example, FF-FF-00-00-00-00.
Description	OUI address description.	N/A	Case-sensitive string of 1 to 30 characters.	N/A

VLAN/VoicePorts

This table contains voice VLAN information for a port.

XML structure

```
<VLAN>
  <VoicePorts>
    <Interface>
      <IfIndex></IfIndex>
```

```

    <Vlan></Vlan>
    <Mode></Mode>
    <QoS>
      <Trust></Trust>
      <CoS></CoS>
      <DSCP></DSCP>
    </QoS>
  </Interface>
</VoicePorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoicePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see Ifmgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Vlan	Voice VLAN ID on the port.	N/A	Unsigned integer. Value range: 2 to 4094	Valid only on a hybrid or trunk port operating in automatic voice VLAN assignment mode.
Mode	Voice VLAN assignment mode on the port.	N/A	Enumeration: 1—Automatic. 2—Manual.	By default, a port operates in automatic voice VLAN assignment mode.
QoS	QoS information of voice VLAN on the port.	N/A	Include: Trust. CoS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			DSCP.	
Trust	Whether the QoS priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: true false	When a port trusts the QoS priority settings in incoming voice VLAN packets, the port does not modify their CoS and DSCP values.
CoS	CoS value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 7	Valid only when the Trust label above is false. The value is 6 by default.
DSCP	DSCP value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 63	Valid only when the Trust label above is false,. The value is 46 by default.

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VLAN

VLAN/VLANs

This table contains basic VLAN information.

XML structure

```
<VLAN>
  <VLANs>
    <VLANID>
      <ID></ID>
      <Description></Description>
      <Name></Name>
      <RouteIfIndex></RouteIfIndex>
      <UntaggedPortList></UntaggedPortList>
      <TaggedPortList></TaggedPortList>
      <Shared></Shared>
    </VLANID>
  </VLANs>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANs
Table type	Multi-instance table
Row name	VLANID
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
Description	VLAN description	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	VLAN name	N/A	String. Length: 1 to 32 characters.	N/A
RoutelIndex	VLAN interface index	N/A	Unsigned integer.	This column is not displayed if the VLAN interface does not exist. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
UntaggedPortList	List of ports that are assigned to the VLAN as untagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic with the VLAN tag removed.
TaggedPortList	List of ports that are assigned to the VLAN as tagged VLAN members	N/A	Number string. It is a comma-separated list of port index items. An item can be an individual port index or a port index range. Use a hyphen (-) to separate the start and end port indexes of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. Available port indexes are in the PortIndex column in the Ifmgr/Interfaces table. These ports forward traffic without removing the VLAN tag.
Shared	Whether the VLAN is shared	N/A	Boolean: - true - false	N/A

VLAN/Interfaces

This table contains VLAN information for a port.

XML structure

```
<VLAN>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <LinkType></LinkType>
      <PVID></PVID>
      <UntaggedVlanList></UntaggedVlanList>
      <TaggedVlanList></TaggedVlanList>
      <PermitVlanList></PermitVlanList>
    </Interface>
  </Interfaces>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Name	Full name of the interface, including the interface type and number	N/A	String. Length: 2 to 47 characters.	N/A
LinkType	Port link type	N/A	Enumeration: 1—Access. 2—Trunk.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			3—Hybrid.	
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20.
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available only for trunk and hybrid ports.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. The column is available only for trunk ports.

VLAN/AccessInterfaces

This table contains information about Access ports.

XML structure

```

<VLAN>
  <AccessInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PVID></PVID>
    </Interface>
  
```

```

    </AccessInterfaces>
  </VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	AccessInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/TrunkInterfaces

This table contains information about Trunk ports.

XML structure

```

<VLAN>
  <TrunkInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <PermitVlanList></PermitVlanList>
      <PVID></PVID>
    </Interface>
  </TrunkInterfaces>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	TrunkInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
PermitVlanList	List of permitted VLANs on the port	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/HybridInterfaces

This table contains information about Hybrid ports.

XML structure

```
<VLAN>
  <HybridInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <UntaggedVlanList></UntaggedVlanList>
```

```

    <TaggedVlanList></TaggedVlanList>
    <PVID></PVID>
  </Interface>
</HybridInterfaces>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	HybridInterfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
UntaggedVlanList	List of VLANs to which the port is assigned as an untagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	N/A
TaggedVlanList	List of VLANs to which the port is assigned as a tagged VLAN member	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			with a comma or hyphen, or include any whitespace characters. By default, a port is not assigned to any VLANs as a tagged member.	
PVID	Port VLAN ID	N/A	Value range: 1 to 4094.	N/A

VLAN/QinQ

This table contains QinQ information of all ports.

XML structure

```

<VLAN>
  <QinQ>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
  </QinQ>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	QinQ
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTPID	TPID value in the service VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CustomerTPID	TPID value in the customer VLAN tag.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

VLAN/QinQPorts

This table contains QinQ information for a port.

XML structure

```
<VLAN>
  <QinQPorts>
    <Interface>
      <IfIndex></IfIndex>
      <QinQ></QinQ>
      <ServiceTPID></ServiceTPID>
      <CustomerTPID></CustomerTPID>
      <TransVlanList></TransVlanList>
    </Interface>
  </QinQPorts>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	QinQPorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
QinQ	Whether QinQ is enabled on the port.	N/A	Boolean: true false	N/A
ServiceTPID	The TPID value in the service VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CustomerTPID	The TPID value in the customer VLAN tag on the port.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TransVlanList	List of transparent VLANs on the port.	N/A	Number string. It is a comma-separated list of VLAN items. An item can be an individual VLAN ID or a VLAN ID range. Use a hyphen (-) to separate the start and end VLANs of a range. The string cannot end with a comma or hyphen, or include any whitespace characters.	Example: 1,2,3,5-8,10-20. This VLANs cannot exist in CustomerOuterVlan on table VLAN/VLANMapping.

VLAN/QinQCapabilities

This table contains QinQ capabilities information.

XML structure

```

<VLAN>
  <QinQCapabilities>
    <GlobalServiceTPID></GlobalServiceTPID>
    <GlobalCustomerTPID></GlobalCustomerTPID>
    <QinQState></QinQState>
    <ServiceTPID></ServiceTPID>
    <CustomerTPID></CustomerTPID>
    <TransVlan></TransVlan>
  </QinQCapabilities>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	QinQCapabilities
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalServiceTP	Whether service	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	TPID for all interfaces can be configured.		true false	
GlobalCustomerTPID	Whether customer TPID for all interfaces can be configured.	N/A	Boolean: true false	N/A
QinQState	Whether QinQ state can be configured on ports.	N/A	Boolean: true false	N/A
ServiceTPID	Whether service TPID can be configured on ports.	N/A	Boolean: true false	N/A
CustomerTPID	Whether customer TPID can be configured on ports.	N/A	Boolean: true false	N/A
TransVlan	Whether transparent VLAN can be configured on ports.	N/A	Boolean: true false	N/A

VLAN/VLANnetworkNto1mapping

This table contains network-side many-to-one VLAN mapping information.

XML structure

```

<VLAN>
  <VLANnetworkNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <NNI></NNI>
    </Interface>
  </VLANnetworkNto1mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLANnetworkNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
NNI	Whether the network-side interface for many-to-one VLAN mapping is enabled on the port.	N/A	Boolean: • true • false	N/A

VLAN/VLAN1to1mapping

This table contains one-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLAN1to1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalVlan></OriginalVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLAN1to1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN1to1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OriginalVlan	Original VLAN for one to one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for one to one mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

VLAN/VLANUserNto1mapping

This table contains user-side many-to-one VLAN mapping information.

XML structure

```
<VLAN>
  <VLANUserNto1mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OriginalStartVlan></OriginalStartVlan>
      <OriginalEndVlan></OriginalEndVlan>
      <TranslatedVlan></TranslatedVlan>
    </Interface>
  </VLANUserNto1mapping>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VLANUserNto1mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OriginalStartVlan	Start VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OriginalEndVlan	End VLAN of the original VLAN for many-to-one VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedVlan	Translated VLAN for many-to-one VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN1to2mapping

This table contains one-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN1to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <CustomerStartVlan></CustomerStartVlan>
      <CustomerEndVlan></CustomerEndVlan>
      <NestedVlan></NestedVlan>
    </Interface>
  </VLAN1to2mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN

Item	Description
Table name	VLAN1to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
CustomerStartVlan	Start VLAN of the customer VLAN for one-to-two vlan mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
CustomerEndVlan	End VLAN of the customer VLAN for one-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
NestedVlan	Nest VLAN for one-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to2mapping

This table contains two-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN2to2mapping>
    <Interface>
      <IfIndex></IfIndex>
      <OuterVlan></OuterVlan>
      <InnerVlan></InnerVlan>
      <TranslatedOuterVlan></TranslatedOuterVlan>
      <TranslatedInnerVlan></TranslatedInnerVlan>
    </Interface>
  </VLAN2to2mapping>
</VLAN>

```

```

    </VLAN2to2mapping>
  </VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OuterVlan	Outer VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
InnerVlan	Inner VLAN for two-to-two VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedOuterVlan	Translated outer VLAN for two-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
TranslatedInnerVlan	Translated inner VLAN for two-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN0to2mapping

This table contains zero-to-two VLAN mapping information.

XML structure

```

<VLAN>
  <VLAN0to2mapping>

```

```

<Interface>
  <IfIndex></IfIndex>
  <ServiceOuterVlan></ServiceOuterVlan>
  <ServiceInnerVlan></ServiceInnerVlan>
</Interface>
</VLAN0to2mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN0to2mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
ServiceOuterVlan	Outer service VLAN for zero-to-two VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.
ServiceInnerVlan	Inner service VLAN for zero-to-two VLAN mapping.	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VLAN2to3mapping

This table contains two-to-three VLAN mapping information.

XML structure

```

<VLAN>

```



```

<VLAN2to3mapping>
  <Interface>
    <IfIndex></IfIndex>
    <OuterStartVlan></OuterStartVlan>
    <OuterEndVlan></OuterEndVlan>
    <InnerStartVlan></InnerStartVlan>
    <InnerEndVlan></InnerEndVlan>
    <NestedVlan></NestedVlan>
  </Interface>
</VLAN2to3mapping>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VLAN2to3mapping
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
OuterStartVlan	Start VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
OuterEndVlan	End VLAN of the outer VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A
InnerStartVlan	Start VLAN of the inner vlan for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
InnerEndVlan	End VLAN of the inner VLAN for two-to-three VLAN mapping.	Index	Unsigned integer. Value range: 1 to 4094.	N/A.
NestedVlan	Nest VLAN for two-to-three VLAN mapping .	N/A	Unsigned integer. Value range: 1 to 4094.	N/A.

VLAN/VoiceInfo

This table contains voice VLAN basic information.

XML structure

```
<VLAN>
  <VoiceInfo>
    <AgingTime></AgingTime>
    <LLDPTrack></LLDPTrack>
    <Mode></Mode>
    <CurNum></CurNum>
  </VoiceInfo>
</VLAN>
```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceInfo
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTime	Voice VLAN aging time.	N/A	Unsigned integer, in minutes. Value range: 5 to 43200 minutes.	By default, the aging time is 1440 minutes.
LLDPTrack	Whether LLDP is enabled for automatic IP phone	N/A	Boolean: true false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	discovery.			
Mode	Voice VLAN security mode.	N/A	Enumeration: 1—Security 2—Normal	By default, the voice VLAN security mode is enabled.
CurNum	Number of existing voice VLANs.	N/A	Unsigned integer.	N/A

VLAN/VoiceOUI

This table contains voice VLAN OUI address information.

XML structure

```

<VLAN>
  <VoiceOUI>
    <OUI>
      <Address></Address>
      <Mask></Mask>
      <Description></Description>
    </OUI>
  </VoiceOUI>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoiceOUI
Table type	Multi-instance table
Row name	OUI
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Address	Source MAC address of voice traffic	Index	Six groups of two hexadecimal digits, hyphen-separated.	For example, 1234-1234-1234.
Mask	Valid length of the OUI address by a mask.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	The mask contains consecutive 1s and 0s. For example, FFFF-0000-0000.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	OUI address description.	N/A	Case-sensitive string of 1 to 30 characters.	N/A

VLAN/VoicePorts

This table contains voice VLAN information for a port.

XML structure

```

<VLAN>
  <VoicePorts>
    <Interface>
      <IfIndex></IfIndex>
      <Vlan></Vlan>
      <Mode></Mode>
      <QoS>
        <Trust></Trust>
        <CoS></CoS>
        <DSCP></DSCP>
      </QoS>
    </Interface>
  </VoicePorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	VoicePorts
Table type	Multi-instance table
Row name	Interface
Restrictions	This table supports only Layer 2 interfaces.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only includes ports where voice VLAN can be configured. Some versions support interface name. For relevant

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Vlan	Voice VLAN ID on the port.	N/A	Unsigned integer. Value range: 2 to 4094	Valid only on a hybrid or trunk port operating in automatic voice VLAN assignment mode.
Mode	Voice VLAN assignment mode on the port.	N/A	Enumeration: 1—Automatic. 2—Manual.	By default, a port operates in automatic voice VLAN assignment mode.
QoS	QoS information of voice VLAN on the port.	N/A	Include: Trust. CoS. DSCP.	N/A
Trust	Whether the QoS priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: true false	When a port trusts the QoS priority settings in incoming voice VLAN packets, the port does not modify their CoS and DSCP values.
CoS	CoS value for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 7	Valid only when the Trust label above is false. The value is 6 by default.
DSCP	The DSCP values for incoming voice VLAN packets on the port.	N/A	Unsigned integer. Value range: 0 to 63	Valid only when the Trust label above is false. The value is 46 by default.

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VMM

VMM/CreateVMPassword

This table is used to create password for a virtual machine.

XML structure

```
<VMM>
  <CreateVMPassword>
    <VM>
      <IpAddress></IpAddress>
      <Password></Password>
    </VM>
  </CreateVMPassword>
</VMM>
```

Table description

Item	Description
Feature name	VMM
Table name	CreateVMPassword
Table type	Multi-instance table
Row name	VM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IP address of a virtual machine	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated..	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
Password	The password to be created	N/A	String. Length: 4 to 32 characters.	

VMM/DeleteVMPassword

This table is used to delete the password of a virtual machine.

XML structure

```
<VMM>
  <DeleteVMPassword>
    <VM>
      <IpAddress></IpAddress>
    </VM>
  </DeleteVMPassword>
</VMM>
```

Table description

Item	Description
Feature name	VMM
Table name	DeleteVMPassword
Table type	Multi-instance table
Row name	VM
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IpAddress	The IP address of a virtual machine	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated..	IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.

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VPLS

VPLS/SignalingLDPs

This table contains PW information of VPLS signaling LDP.

XML structure

```
<VPLS>
  <SignalingLDPs>
    <SignalingLDP>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </SignalingLDP>
  </SignalingLDPs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingLDPs
Table type	Multi-instance table
Row name	SignalingLDP
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create SignalingLDPs.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: - Type. - Time.	The member of Type must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Revertive member. Revertive type.	N/A	Enumeration: 1—Never. 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	Only works and must be specified when the revertive type is WTR.

VPLS/LDPPeers

This table contains PW peer information of VPLS using LDP signaling.

XML structure

```

<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPPeer>
  </LDPPeers>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability. No modification.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	Statistics for the PW	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/LDPBackupPeers

This table contains PW backup peer information of VPLS using signaling LDP.

XML structure

```

<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>

```

```

    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.

VPLS/SignalingStatics

This table contains PW information of VPLS signaling STATIC.

XML structure

```

<VPLS>
  <SignalingStatics>

```

```

<SignalingStatic>
  <VsiName></VsiName>
  <Revertive>
    <Type></Type>
    <Time></Time>
  </Revertive>
</SignalingStatic>
</SignalingStatics>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingStatics
Table type	Multi-instance table
Row name	SignalingStatic
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create SignalingLDPs.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: - Type. - Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: 1—Never. 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	Only works and must be specified when the revertive type is WTR.

VPLS/StaticPeers

This table contains PW peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>    </StaticPeer>
    </StaticPeers>
  </VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. No modification.

Column name	Column description	Column type	Data type and restrictions	Remarks
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. No modification.
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability. No modification.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/StaticBackupPeers

This table contains PW backup peer information of VPLS using static signaling.

XML structure

```

<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPLS>

```


Table description

Item	Description
Feature name	VPLS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	You must create a VSI instance first before you merge, replace or create VPLSPeers.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. No modification.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	The signaling type must be STATIC. No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.

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VPLS

VPLS/SignalingLDPs

This table contains PW information of VPLS signaling LDP.

XML structure

```
<VPLS>
  <SignalingLDPs>
    <SignalingLDP>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </SignalingLDP>
  </SignalingLDPs>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingLDPs
Table type	Multi-instance table
Row name	SignalingLDP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: - Type. - Time.	N/A
Type	Revertive member. Revertive type.	N/A	Enumeration: 1—Never. 2—WTR.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	N/A

VPLS/LDPPeers

This table contains PW peer information of VPLS using LDP signaling.

XML structure

```

<VPLS>
  <LDPPeers>
    <LDPPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPPeer>
  </LDPPeers>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
Statistics	Statistics for the PW	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/LDPBackupPeers

This table contains PW backup peer information of VPLS using signaling LDP.

XML structure

```

<VPLS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
Statistics	Statistics for the PW	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/SignalingStatics

This table contains PW information of VPLS signaling STATIC.

XML structure

```
<VPLS>
  <SignalingStatics>
    <SignalingStatic>
      <VsiName></VsiName>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </SignalingStatic>
  </SignalingStatics>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	SignalingStatics
Table type	Multi-instance table
Row name	SignalingStatic
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: - Type. - Time.	N/A
Type	Revertive member. Revertive type.	N/A	Enumeration: 1—Never. 2—WTR.	N/A
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec.	N/A

VPLS/StaticPeers

This table contains PW peer information of VPLS using static signaling.

XML structure

```
<VPLS>
  <StaticPeers>
    <StaticPeer>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </StaticPeer>
  </StaticPeers>
</VPLS>
```

Table description

Item	Description
Feature name	VPLS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/StaticBackupPeers

This table contains PW backup peer information of VPLS using static signaling.

XML structure

```

<VPLS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <VsiName></VsiName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <Hub></Hub>
      <SplitHorizon></SplitHorizon>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
Hub	Hub spoke attribute for the PW	N/A	Boolean: - true—Hub. - false—Spoke(default).	You must first enable the VSI with the hub-spoke capability.
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	N/A
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPLS/RmtMACs

This table contains information about remote MAC addresses of each VPLS VSI.

XML structure

```

<VPLS>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <LinkID></LinkID>
      <MACState></MACState>
      <Aging></Aging>
      <AgingTime></AgingTime>
    </MAC>
  </RmtMACs>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
LinkID	Link ID of the Mac	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
MACState	State	N/A	Enumeration: • 0—dynamic.	N/A
Aging	Whether in aging state	N/A	• true—Aging. • false—Not aging	N/A
AgingTime	When it is true in aging state	N/A	Unsigned integer. The value range varies by device model.	N/A

VPLS/PWs

This table contains information of PW.

XML structure

```

<VPLS>
  <PWs>
    <PW>
      <VsiName></VsiName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Protocol></Protocol>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <MTU></MTU>
      <TunnelGroupID></TunnelGroupID>
      <TunnelNHLFEIDs>
        <TunnelNHLFEID></TunnelNHLFEID>
      </TunnelNHLFEIDs>
      <IsMainPW></IsMainPW>
      <HubSpoke></HubSpoke>
      <SplitHorizon></SplitHorizon>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <LinkID></LinkID>
      <State></State>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
    </PW>
  </PWs>
</VPLS>

```

```

        <Discards></Discards>
    </OutputStatistics>
</PW>
</PWs>
</VPLS>

```

Table description

Item	Description
Feature name	VPLS
Table name	PWs
Table type	Multi-instance table
Row name	PW
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Protocol	Signaling protocol.	N/A	Enumeration: 1—STATIC 2—LDP	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
MTU	MTU	N/A	Unsigned integer.	N/A
TunnelGroupID	Tunnel group ID.	N/A	Unsigned integer(64).	N/A
TunnelNHLFEIDs	List of Tunnel NHLFE IDs	N/A	Members include: TunnelNHLFEID	N/A
TunnelNHLFEID	Tunnel NHLFE ID	N/A	Unsigned integer.	Repeat supported.
IsMainPW	Is main PW or not.	N/A	Boolean: - true—Main PW. - false—Backup PW.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HubSpoke	Hub spoke capability.	N/A	Enumeration: 0—None 1—Hub 2—Spoke	N/A
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: - true—Enabled(default). - false—Disabled.	N/A.
ControlWord	Whether using control word.	N/A	Boolean: - true—Enabled - false—Disabled.	N/A
PWType	PW type.	N/A	Enumeration: 0—Unknown 1—FR_DLCI_MARTINI 2—ATM_AAL5_SDU_VCC 3—ATM_CELL_TRANSPORT 4—VLAN 5—ETHERNET 6—HDLC 7—PPP 8—CESOM 9—ATM_CELL_VCC 10—ATM_CELL_VPC 11—IP_INTERWORKING 12—ATM_CELL_1TO1_VCC 13—ATM_CELL_1TO1_VPC 14—ATM_AAL5_PDU_VC 15—FR_PORT 16—CEP 17—TDM_SATOP_E1 18—TDM_SATOP_T1 19—TDM_SATOP_E3 20—TDM_SATOP_T3 21—TDM_CESOPSN_BASIC 22—TDMoIP_AAL1_Mode 23—TDM_CESOPSN_WITH_CAS 24—TDMoIP_AAL2_Mode 25—FR_DLCI	N/A
LinkID	Link ID of the PW	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the PW	N/A	Enumeration: • 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate	N/A
InputStatistics	Input statistics	N/A	Members include: • Octets • Packets • Errors • Discards	N/A
OutputStatistics	Output statistics	N/A	Members include: • Octets • Packets • Errors • Discards	N/A
Octets	Packet octets	N/A	Unsigned integer(64).	N/A
Packets	Packet number	N/A	Unsigned integer(64).	N/A
Errors	Error packet number	N/A	Unsigned integer(64).	N/A
Discards	Discarded packet number	N/A	Unsigned integer(64).	N/A

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XML structure	8
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Columns	9
VPWS/StaticBackupPeers	10
XML structure	10
Table description	10
Columns	11

VPWS

VPWS/XCGs

This table contains information about XCGs.

XML structure

```
<VPWS>
  <XCGs>
    <XCG>
      <XCGName></XCGName>
      <Description></Description>
      <AdminStatus></AdminStatus>
    </XCG>
  </XCGs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	XCGs
Table type	Multi-instance table
Row name	XCG
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCGName	Index	String. Length: 1 to 31 characters.	N/A
Description	description for the XCG	N/A	String. Length: 1 to 80 characters.	N/A
AdminStatus	Administratively status	N/A	Enumeration: 1—Administratively up(default). 2—Administratively down.	N/A

VPWS/Connections

This table contains information about XCGs.

XML structure

```
<VPWS>
  <Connections>
    <Connection>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Interworking></Interworking>
      <MTU></MTU>
      <ArpSuppression></ArpSuppression>
      <DualReceive></DualReceive>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </Connection>
  </Connections>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
Interworking	Interworking for a cross-connect	N/A	Enumeration: 1—None(default). 2—IPv4.	Support for this command depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
MTU	MTU	N/A	Unsigned integer. Value range: The value range varies by device model. Default: 1500 bytes.	N/A
ArpSuppression	ARP flooding suppression	N/A	Boolean: true—Enabled. false—Disabled(default).	Support for this command depends on the device model.
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec. Default: 0 sec.	Only works when the revertive type is WTR.

VPWS/LDP Peers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```

<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPPeer>
  </LDPPeers>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	LDPPeers
Table type	Multi-instance table
Row name	LDPPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPWS/LDPBackupPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```
<VPWS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
```

```

    <MainPWID></MainPWID>
    <PeerAddr></PeerAddr>
    <PWID></PWID>
    <PWClass></PWClass>
    <TunnelPolicy></TunnelPolicy>
  </LDPBackupPeer>
</LDPBackupPeers>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.

VPWS/StaticPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPWS/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```

<VPWS>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
    </L3Interface>
  </L3Interfaces>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference. You must create the XCG first.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	Access mode of the AC	N/A	Enumeration: 1—VLAN. 2—Ethernet.	By default, the value is 1. Cannot be modified after creation.

VPWS/ACs

This table contains information about ACs.

XML structure

```

<VPWS>
  <ACs>
    <AC>

```



```

<IfIndex></IfIndex>
<SrvID></SrvID>
<XCGName></XCGName>
<ConnectionName></ConnectionName>
<AccessMode></AccessMode>
</AC>
</ACs>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first. You must specify this column when the operation is create, merge or replace. Can not be

Column name	Column description	Column type	Data type and restrictions	Remarks
				modified after creation.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first. You must specify this column when the operation is create, merge or replace. Can not be modified after creation.
AccessMode	The access mode of this AC	N/A	Enumeration: 1—Vlan. 2—Ethernet.	By default, the value is 1. Can not be modified after creation.

VPWS/StaticBackupPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```

<VPWS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	StaticBackupPeers

Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	No modification.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.

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VPWS

VPWS/XCGs

This table contains information about XCGs.

XML structure

```
<VPWS>
  <XCGs>
    <XCG>
      <XCGName></XCGName>
      <Description></Description>
      <AdminStatus></AdminStatus>
    </XCG>
  </XCGs>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	XCGs
Table type	Multi-instance table
Row name	XCG
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCGName	Index	String. Length: 1 to 31 characters.	N/A
Description	description for the XCG	N/A	String. Length: 1 to 80 characters.	N/A
AdminStatus	Administratively status	N/A	Enumeration: 1—Administratively up(default). 2—Administratively down.	N/A

VPWS/Connections

This table contains information about XCGs.

XML structure

```
<VPWS>
  <Connections>
    <Connection>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <Interworking></Interworking>
      <MTU></MTU>
      <ArpSuppression></ArpSuppression>
      <DualReceive></DualReceive>
      <Revertive>
        <Type></Type>
        <Time></Time>
      </Revertive>
    </Connection>
  </Connections>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	Connections
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
Interworking	Interworking for a cross-connect	N/A	Enumeration: 1—None(default). 2—IPv4. Unsigned integer.	Support for this command depends on the device model.
MTU	MTU	N/A	Value range: The value range varies by device model. Default: 1500 bytes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ArpSuppression	ARP flooding suppression	N/A	Boolean: true—Enabled. false—Disabled(default).	Support for this command depends on the device model.
DualReceive	Dual receive function for PW redundancy	N/A	Boolean: • true—Enabled. • false—Disabled(default).	Support for this command depends on the device model.
Revertive	Switch traffic back to the primary PW when it recovers	N/A	Members include: • Type. • Time.	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: • 1—Never. • 2—WTR.	This member must be specified.
Time	Revertive member. Time for WTR.	N/A	Unsigned integer. Value range: 0 to 3600 sec. Default: 0 sec.	Only works when the revertive type is WTR.

VPWS/LDPPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```

<VPWS>
  <LDPPeers>
    <LDPPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPPeer>
  </LDPPeers>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	LDPPeers

Table type	Multi-instance table
Row name	LDPPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPWS/LDPBackupPeers

This table contains PW peer information of VPWS using LDP signaling.

XML structure

```

<VPWS>
  <LDPBackupPeers>
    <LDPBackupPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </LDPBackupPeer>
  </LDPBackupPeers>
</VPWS>

```



```
</LDPBackupPeers>  
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	LDPBackupPeers
Table type	Multi-instance table
Row name	LDPBackupPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default).	Support for this command depends on the device model.

VPWS/StaticPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```
<VPWS>
  <StaticPeers>
    <StaticPeer>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </StaticPeer>
  </StaticPeers>
</VPWS>
```

Table description

Item	Description
Feature name	VPWS
Table name	StaticPeers
Table type	Multi-instance table
Row name	StaticPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies	This member must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			by device model.	No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default for other).	Support for this command depends on the device model.

VPWS/StaticBackupPeers

This table contains PW peer information of VPWS using static signaling.

XML structure

```

<VPWS>
  <StaticBackupPeers>
    <StaticBackupPeer>
      <XCName></XCName>
      <ConnectionName></ConnectionName>
      <MainPeerAddr></MainPeerAddr>
      <MainPWID></MainPWID>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <PWClass></PWClass>
      <TunnelPolicy></TunnelPolicy>
      <Statistics></Statistics>
    </StaticBackupPeer>
  </StaticBackupPeers>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	StaticBackupPeers
Table type	Multi-instance table
Row name	StaticBackupPeer
Restrictions	No modification.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG Name	Index	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	You must create the connection first.
MainPeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
MainPWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	This member must be specified. No modification.
PWClass	PW class related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
TunnelPolicy	Tunnel policy related to the PW	N/A	String. Length: 1 to 19 characters.	No modification.
Statistics	PW Statistics	N/A	Boolean: - true—Enabled. - false—Disabled(default for other).	Support for this command depends on the device model.

VPWS/L3Interfaces

This table contains information about ACs for Layer 3 Ethernet interfaces.

XML structure

```

<VPWS>
  <L3Interfaces>
    <L3Interface>
      <IfIndex></IfIndex>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <AccessMode></AccessMode>
    </L3Interface>
  </L3Interfaces>
</VPWS>

```

```

    </L3Interfaces>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	L3Interfaces
Table type	Multi-instance table
Row name	L3Interface
Restrictions	This table supports only layer 3 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first.
AccessMode	Access mode of the AC	N/A	Enumeration: 1—VLAN. 2—Ethernet.	By default, the value is 1.

VPWS/ACs

This table contains information about ACs.

XML structure

```
<VPWS>
```

```

<ACs>
  <AC>
    <IfIndex></IfIndex>
    <SrvID></SrvID>
    <XCGName></XCGName>
    <ConnectionName></ConnectionName>
    <AccessMode></AccessMode>
  </AC>
</ACs>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	ACs
Table type	Multi-instance table
Row name	AC
Restrictions	This table supports only layer 2 Ethernet interfaces.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
SrvID	Service instance ID	Index	Unsigned integer. Value range: 1 to 4096.	You must create a service instance first before you merge, replace or create ACs.
XCGName	XCG Name	N/A	String. Length: 1 to 31 characters.	You must create the XCG first.
ConnectionName	Connection Name	N/A	String. Length: 1 to 20 characters.	You must create the connection first.

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessMode	The access mode of this AC	N/A	Enumeration: 1—Vlan. 2—Ethernet.	By default, the value is 1.

VPWS/PWs

This table contains information of PW.

XML structure

```

<VPWS>
  <PWs>
    <PW>
      <XCGName></XCGName>
      <ConnectionName></ConnectionName>
      <PeerAddr></PeerAddr>
      <PWID></PWID>
      <Protocol></Protocol>
      <InLabel></InLabel>
      <OutLabel></OutLabel>
      <MTU></MTU>
      <TunnelGroupID></TunnelGroupID>
      <TunnelNHLFEIDs>
        <TunnelNHLFEID></TunnelNHLFEID>
      </TunnelNHLFEIDs>
      <IsMainPW></IsMainPW>
      <ControlWord></ControlWord>
      <PWType></PWType>
      <LinkID></LinkID>
      <State></State>
      <InputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </InputStatistics>
      <OutputStatistics>
        <Octets></Octets>
        <Packets></Packets>
        <Errors></Errors>
        <Discards></Discards>
      </OutputStatistics>
    </PW>
  </PWs>
</VPWS>

```

Table description

Item	Description
Feature name	VPWS
Table name	PWs
Table type	Multi-instance table
Row name	PW
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
XCGName	XCG name	Index	String. Length: 1 to 31 characters.	N/A
ConnectionName	Connection Name	Index	String. Length: 1 to 20 characters.	N/A
PeerAddr	LSR ID of the peer PE	Index	String, dotted decimal notation.	N/A
PWID	PW ID for the PW	Index	Unsigned integer. Value range: 1 to 4294967295.	N/A
Protocol	Signaling protocol.	N/A	Enumeration: 1—STATIC 2—LDP	N/A
InLabel	Incoming label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
OutLabel	Outgoing label of the PW	N/A	Unsigned integer. The value range varies by device model.	N/A
MTU	MTU	N/A	Unsigned integer.	N/A
TunnelGroupID	Tunnel group ID.	N/A	Unsigned integer (64).	N/A
TunnelNHLFEIDs	Tunnel NHLFE IDs.	N/A	Unsigned integer.	Repeat supported.
IsMainPW	Is main PW or not.	N/A	Boolean: - true—Main PW. - false—Backup PW.	N/A
ControlWord	Whether using control word.	N/A	Boolean: - true—Enabled - false—Disabled.	N/A
PWType	PW type.	N/A	Enumeration: 0—Unknown 1—FR_DLCL_MARTINI	N/A

			• 2—ATM_AAL5_SDU_VCC • 3—ATM_CELL_TRANSPO RT • 4—VLAN • 5—ETHERNET • 6—HDLC • 7—PPP • 8—CESOM • 9—ATM_CELL_VCC • 10—ATM_CELL_VPC • 11—IP_INTERWORKING • 12—ATM_CELL_1TO1_V CC • 13—ATM_CELL_1TO1_V PC • 14—ATM_AAL5_PDU_VC C • 15—FR_PORT • 16—CEP • 17—TDM_SATOP_E1 • 18—TDM_SATOP_T1 • 19—TDM_SATOP_E3 • 20—TDM_SATOP_T3 • 21—TDM_CESOPSN_BA SIC • 22—TDMoIP_AAL1_Mode • 23—TDM_CESOPSN_WI TH_CAS • 24—TDMoIP_AAL2_Mode • 25—FR_DLCI	
LinkID	Link ID of the PW	N/A	Unsigned integer.	N/A
			Enumeration:	
			• 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate	
State	State of the PW	N/A		N/A
			Members include:	
			• Octets • Packets • Errors • Discards	N/A
InputStatistics	Input statistics	N/A		
			Members include:	
			• Octets • Packets • Errors • Discards	N/A
OutputStatistics	Output statistics	N/A		
Octets	Packet octets	N/A	Unsigned integer(64).	N/A
Packets	Packet number	N/A	Unsigned integer(64).	N/A

Errors	Error packet number	N/A	Unsigned integer(64).	N/A
Discards	Discarded packet number	N/A	Unsigned integer(64).	N/A

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Columns	6

VRRP

VRRP/VRRPOper

This table contains VRRP operation information.

XML structure

```
<VRRP>
  <VRRPOper>
    <Operation>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <PriorityConfig></PriorityConfig>
      <AuthTypeConfig></AuthTypeConfig>
      <AuthKey></AuthKey>
      <AdverInterval></AdverInterval>
      <PreemptMode></PreemptMode>
      <PreemptDelay></PreemptDelay>
    </Operation>
  </VRRPOper>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPOper
Table type	Multi-instance table
Row name	Operation
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
PriorityConfig	Priority of virtual router	N/A	Unsigned integer. Value range: 1 to 254. Default: 100.	A larger value indicates a higher priority.
AuthTypeConfig	Authentication type	N/A	Enumeration: 1—Simple password. 2—Authentication header.	By default, no authentication is specified for VRRP. IPv6 VRRP does not support authentication configuration. Both AuthTypeConfig and AuthKey must be configured for the merge, create, replace, delete and remove operations.
AuthKey	Authentication key	N/A	String, case-sensitive. Length: 1 to 8 characters.	Only plaintext password is supported. AuthKey cannot be configured when no AuthTypeConfig is configured.
AdverInterval	Advertisement interval	N/A	Unsigned integer. Value range: 10 to 4095. Default: 100.	The unit is centiseconds.
PreemptMode	Preempt mode	N/A	Enumeration: 1—Preemptive mode. 2—Non-preemptive mode. Default: preemptive mode.	For the merge, create, and replace operations, configure the preemptive mode and the preemption delay, or configure the non-preemptive mode without the preemption delay. Both the preempt mode and preemption delay must be configured for the delete and remove operations.
PreemptDelay	Preemption delay	N/A	Unsigned integer. Value range: 0 to 180000. Default: 0.	The unit is centiseconds. The default value is 0, which means to preempt immediately.

VRRP/VRRPAssolpAddr

This table contains information about VRRP associated addresses.

XML structure

```
<VRRP>
```

```

<VRRPAssoIpAddress>
  <AssoIpAddr>
    <AddressType></AddressType>
    <IfIndex></IfIndex>
    <VrID></VrID>
    <IpAddress></IpAddress>
    <LinkLocal></LinkLocal>
  </AssoIpAddr>
</VRRPAssoIpAddress>
</VRRP>

```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPAssoIpAddress
Table type	Multi-instance table
Row name	AssoIpAddr
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IpAddress	VRRP virtual IP address	Index	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.

Column name	Column description	Column type	Data type and restrictions	Remarks
LinkLocal	LinkLocal keyword.	N/A	Boolean: true. false.	For the merge, create, and replace operations, you cannot configure the LinkLocal keyword when the VRRP virtual IP address is an IPv4 address. You must configure the LinkLocal keyword when the VRRP virtual IP address is an IPv6 address. When the IPv6 address is a link-local address, set the value to true . Otherwise, set the value to false . For the delete and remove operations, the LinkLocal keyword cannot be configured.

VRRP/VRRPTrack

This table contains information about VRRP Track.

XML structure

```

<VRRP>
  <VRRPTrack>
    <Track>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrackID></TrackID>
      <TrackMode></TrackMode>
      <ReducePriority></ReducePriority>
    </Track>
  </VRRPTrack>
</VRRP>

```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPTrack
Table type	Multi-instance table
Row name	Track
Restrictions	Only supported on Layer 3 interfaces

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrackID	Track ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackMode	Track mode	Index	Enumeration: 1—Switchover. 2—Priority reduced.	For reduced mode: when the track switches to Negative, reduce the VRRP priority of local router. For switchover mode: when the track switches to Negative, if local router's VRRP state is Backup, switch to Master at once.
ReducePriority	Value of reduced priority	N/A	Unsigned integer. Value range: 1 to 255.	ReducePriority cannot be configured when TrackMode is switchover . The default value is 10 when TrackMode is priority reduced .

VRRP/VRRPInterface

This table contains information about VRRP interfaces.

XML structure

```
<VRRP>
  <VRRPInterface>
```



```

<Interface>
  <IfIndex></IfIndex>
  <Ipv4Dot1QVLANID></Ipv4Dot1QVLANID>
  <Ipv4SecondDot1QVLANID></Ipv4SecondDot1QVLANID>
  <Ipv4Version></Ipv4Version>
</Interface>
</VRRPInterface>
</VRRP>

```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	Only supported on Layer 3 interfaces
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	IPv4 VRRP control VLAN configuration takes effect on only Layer 3 Ethernet subinterfaces and aggregate subinterfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Ipv4Dot1QVLANID	Outer VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	For the delete and remove operations, if you configure the outer VLAN ID, you must also configure the inner VLAN ID.
Ipv4SecondDot1QVLANID	Inner VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	For the merge, create, and replace operations, you must configure both the outer VLAN ID and inner VLAN ID.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: • 2—VRRPv2. • 3—VRRPv3. Default: VRRPv3.	N/A

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VRRP

VRRP/Base

This table contains VRRP operation table.

XML structure

```
<VRRP>
  <VRRPOper>
    <Operation>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <OperState></OperState>
      <PriorityConfig></PriorityConfig>
      <PriorityRun></PriorityRun>
      <IpAddressCount></IpAddressCount>
      <MasterIpAddress></MasterIpAddress>
      <AuthTypeConfig></AuthTypeConfig>
      <AuthTypeRun></AuthTypeRun>
      <AdverInterval></AdverInterval>
      <PreemptMode></PreemptMode>
      <PreemptDelay></PreemptDelay>
    </Operation>
  </VRRPOper>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPOper
Table type	Multi-instance table
Row name	Operation
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
OperState	Virtual router state	N/A	Enumeration: 0—Inactive. 1—Initialize. 2—Backup. 3—Master.	N/A
PriorityConfig	Configured priority of virtual router	N/A	Unsigned integer. Value range: 1 to 254. Default: 100.	A larger value indicates a higher priority.
PriorityRun	Running priority of virtual router	N/A	Unsigned integer. Value range: 0 to 255.	The larger value indicates higher priority.
IPAddressCount	Count of associated addresses	N/A	Unsigned integer. Value range: 0 to 16.	N/A
MasterIpAddress	IP address of the Master router	N/A	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
AuthTypeConfig	Configured authentication type	N/A	Enumeration: 0—no authentication 1—Simple password 2—Authentication header.	N/A
AuthTypeRun	Running authentication type	N/A	Enumeration: 0—no authentication 1—Simple Password 2—Authentication header.	The value is 0 for VRRPv3
AdverInterval	Advertisement interval	N/A	Unsigned integer. Value range: 10 to 4095.	The unit is centiseconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
PreemptMode	Preempt mode	N/A	Enumeration: 1—Preemptive mode. 2—Non-preemptive mode. Default: preemptive mode.	N/A
PreemptDelay	Preemption delay	N/A	Unsigned integer. Value range: 0 to 180000.	The unit is centiseconds. The default value is 0, which means to preempt immediately. If PreemptMode is non-preemptive mode, this value cannot be obtained.

VRRP/VRRPAssolpAddr

This table contains information about VRRP associated IP addresses.

XML structure

```

<VRRP>
  <VRRPAssoIpAddress>
    <AssoIpAddr>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <IpAddress></IpAddress>
      <LinkLocal></LinkLocal>
    </AssoIpAddr>
  </VRRPAssoIpAddress>
</VRRP>

```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPAssolpAddr
Table type	Multi-instance table
Row name	AssolpAddr
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
IpAddress	Virtual IP address	Index	String, dotted decimal notation. Or Hexadecimal string, colon-separated.	For example, 1.1.1.1, or 1::1.
LinkLocal	LinkLocal keyword.	N/A	Boolean: - true. - false.	If IpAddress is IPv4 address, this value cannot be obtained.

VRRP/VRRPTrack

This table contains information about VRRP Track.

XML structure

```

<VRRP>
  <VRRPTrack>
    <Track>
      <AddressType></AddressType>
      <IfIndex></IfIndex>
      <VrID></VrID>
      <TrackID></TrackID>
      <TrackMode></TrackMode>
      <ReducePriority></ReducePriority>
    </Track>
  </VRRPTrack>
</VRRP>

```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPTrack
Table type	Multi-instance table
Row name	Track
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: 0—IPv4. 1—IPv6.	N/A
IfIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
VrID	Virtual router ID	Index	Unsigned integer. Value range: 1 to 255.	The value range depends on the device model.
TrackID	Track ID	Index	Unsigned integer. Value range: 1 to 1024.	N/A
TrackMode	Track mode	Index	Enumeration: 1—Switchover. 2—Priority reduced.	For reduced mode: when the track switches to Negative, reduce the VRRP priority of local router. For switchover mode: when the track switches to Negative, if local router's VRRP state is Backup, switch to Master at once.
ReducePriority	Value of reduced priority	N/A	Unsigned integer. Value range: 1 to 255.	If TrackMode is switchover, this value cannot be obtained.

VRRP/VRRPInterface

This table contains VRRP interface information.

XML structure

```
<VRRP>
  <VRRPInterface>
    <Interface>
      <IfIndex></IfIndex>
      <Ipv4Dot1QVLANID></Ipv4Dot1QVLANID>
      <Ipv4SecondDot1QVLANID></Ipv4SecondDot1QVLANID>
      <Ipv4Version></Ipv4Version>
    </Interface>
  </VRRPInterface>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPInterface
Table type	Multi-instance table
Row name	Interface
Restrictions	Only supported on Layer 3 interfaces

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	IPv4 VRRP control VLAN configuration takes effect on only Layer 3 Ethernet subinterfaces and aggregate subinterfaces. Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Ipv4Dot1QVLANID	Outer VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	This value cannot be obtained if it's not configured.
Ipv4SecondDot1QVLANID	Inner VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.	This value cannot be obtained if it's not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: 2—VRRPv2. 3—VRRPv3.	N/A

VRRP/VRRPSpecification

This table contains VRRP specification information.

XML structure

```
<VRRP>
  <VRRPSpecification>
    <MaxVrID></MaxVrID>
  </VRRPSpecification>
</VRRP>
```

Table description

Item	Description
Feature name	VRRP
Table name	VRRPSpecification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxVrID	Maximum value of virtual router ID	N/A	Unsigned integer. Value range: 1 to 255.	N/A

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Columns	8
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XML structure	9
Table description	9
Columns	9

VXLAN

VXLAN/Base

This table contains information about global VXLAN functions.

XML structure

```
<VXLAN>
  <Base>
    <RmtMacLearn></RmtMacLearn>
    <RmtArpLearn></RmtArpLearn>
    <RmtNdLearn></RmtNdLearn>
    <LocMacNtf></LocMacNtf>
    <ReservedVxlanID></ReservedVxlanID>
  </Base>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RmtMacLearn	Remote MAC address learning function	N/A	Boolean: true—Enabled(default). false—Disabled.	N/A
RmtArpLearn	Remote ARP learning function	N/A	Boolean: true—Enabled(default). false—Disabled.	You must enable L2VPN feature globally at first.
RmtNdLearn	Remote ND learning function	N/A	Boolean: true—Enabled(default). false—Disabled.	You must enable L2VPN feature globally at first.
LocMacNtf	Local MAC	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address report function		true—Enabled. false—Disabled(default).	
ReservedVxlanID	Reserved VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	You must enable L2VPN feature globally at first. You must specify this column for tunnel BFD. The value must be different from that of VxlanID column in VXLANs table. The available value can be get from the NextVxlanID column in Base table.

VXLAN/VXLANs

This table contains information about VXLAN configurations.

XML structure

```

<VXLAN>
  <VXLANs>
    <Vxlan>
      <VxlanID></VxlanID>
      <VsiName></VsiName>
      <Ipv4Group>
        <GroupAddr></GroupAddr>
        <SrcAddr></SrcAddr>
      </Ipv4Group>
      <TunnelAll></TunnelAll>
    </Vxlan>
  </VXLANs>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANs
Table type	Multi-instance table
Row name	Vxlan
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create VXLANs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove. Can not be modified after creation.
Ipv4Group	VXLAN multicast group structure	Data structure	Members include: - GroupAddr. - SrcAddr.	You must specify both the GroupAddr and SrcAddr when the operation is merge, create or replace.
GroupAddr	IPv4 multicast address	N/A	String, dotted decimal notation.	Example: 224.1.1.1.
SrcAddr	IPv4 source address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
TunnelAll	All tunnels	N/A	Boolean: true—Enabled. false—Disabled(default).	N/A

VXLAN/Tunnels

This table contains information about tunnels associated with VXLANs.

XML structure

```

<VXLAN>
  <Tunnels>
    <Tunnel>
      <VxlanID></VxlanID>
      <TunnelID></TunnelID>
      <FloodingProxy></FloodingProxy>
    </Tunnel>
  </Tunnels>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enable global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range:0-16777215.	You must create a VXLAN first before you merge, replace or create tunnels.
TunnelID	Tunnel ID	Index	Unsigned integer.	You must create a tunnel first before you merge, replace or create tunnels.
FloodingProxy	Flooding proxy	N/A	Boolean: true—Enabled. false—Disabled(default).	Can't be modified after creation.

VXLAN/RmtMACs

This table contains information about remote MAC addresses of each VXLAN.

XML structure

```
<VXLAN>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
    </MAC>
  </RmtMACs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enable global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	You must create a VSI first before you merge, replace or create MACs.
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated. The value must be unicast address.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	You must create a tunnel first before you merge, replace or create MACs. You must specify this column when the operation is merge, create or replace. You can't specify this column when the operation is delete or remove.

VXLAN/Allocations

This table contains VXLAN allocate information in context.

XML structure

```
<VXLAN>
  <Allocations>
    <Allocation>
```



```

    <ContextID></ContextID>
    <Vxlan></Vxlan>
  </Allocation>
</Allocations>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	Allocations
Table type	Multi-instance table
Row name	Allocation
Restrictions	You must enable global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	Context ID	Index	Unsigned integer.	N/A
Vxlan	VXLAN ID list	N/A	Numeric string separated by commas and a maximum of one minus sign. The string cannot contain blank spaces or end with a comma or minus sign. Such as: 1,3,5,8,10-20	N/A

VXLAN/EvpnVxlanEncaps

This table contains information about EVPN with VXLAN encapsulation.

XML structure

```

<VXLAN>
  <EvpnVxlanEncaps>
    <VxlanEncap>
      <VsiName></VsiName>
      <brDAuto></brDAuto>
      <RD></RD>
      <bIrtAuto></bIrtAuto>
      <bErtAuto></bErtAuto>
      <bMacAdvertise></bMacAdvertise>
    </VxlanEncap>
  </EvpnVxlanEncaps>
</VXLAN>

```

```

    <bArpMacLearn></bArpMacLearn>
    <NdMacLearn></NdMacLearn>
    <MappingVni></MappingVni>
    <ArpAdvertise></ArpAdvertise>
  </VxlanEncap>
</EvpnVxlanEncaps>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanEncaps
Table type	Multi-instance table
Row name	VxlanEncap
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
bRDAuto	RD Auto	N/A	Boolean: true—Enabled. false—Disabled(default)	N/A
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A
blrtAuto	Import route target	N/A	Boolean: true—Enabled. false—Disabled(default)	N/A
bErtAuto	Export route target	N/A	Boolean: true—Enabled. false—Disabled(default)	N/A
bMacAdvertise	MAC advertise	N/A	Boolean: true—Enabled(default) false—Disabled	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: true—Enabled(default) false—Disabled	N/A
NdMacLearn	ND MAC	N/A	Boolean:	N/A

	learning		true—Enabled(default) false—Disabled	
MappingVni	Mapping VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	Support for this column depends on the device model.
ArpAdvertise	ARP advertisement	N/A	Boolean: true—Enabled(default) false—Disabled	N/A

VXLAN/EvpnVxlanRTs

This table contains information about EVPN route target associated with VXLANs.

XML structure

```

<VXLAN>
  <EvpnVxlanRTs>
    <VxlanRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </VxlanRT>
  </EvpnVxlanRTs>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanRTs
Table type	Multi-instance table
Row name	VxlanRT
Restrictions	You must enabled global L2VPN feature at first.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A You must create a VSI and enable EVPN encapsulation vxlan

				first before you merge, replace or create VXLAN RTs, and the RT is not auto in table EvpnVxlanEncaps.
RTType	Route target type	Index	Enumeration: 1—Import 2—Export	N/A
RTEntry	Route target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VXLAN/VRFs

This table contains VNIs associated with VPN instances.

XML structure

```

<VXLAN>
  <VRFs>
    <VRF>
      <VRF></VRF>
      <VNI></VNI>
    </VRF>
  </VRFs>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	You must enable L2VPN globally first.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	configured only in the public instance. This column must be empty.

Column name	Column description	Column type	Data type and restrictions	Remarks
VNI	Layer 3 VNI for the tenant	N/A	Unsigned integer. Length: 32 bits.	No modification.

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XML structure	8
Table description	8
Columns	8
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XML structure	9
Table description	9
Columns	9

VXLAN

VXLAN/Base

This table contains information about global VXLAN functions.

XML structure

```
<VXLAN>
  <Base>
    <RmtMacLearn></RmtMacLearn>
    <RmtArpLearn></RmtArpLearn>
    <RmtNdLearn></RmtNdLearn>
    <LocMacNtf></LocMacNtf>
    <NextVxlanID></NextVxlanID>
    <TotalVxlanNum></TotalVxlanNum>
    <ReservedVxlanID></ReservedVxlanID>
  </Base>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	Base
Table type	Single-instance table
Row name	N/A
Restrictions	This table supports only global functions.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RmtMacLearn	Remote MAC address learning function	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
RmtArpLearn	Remote ARP learning function	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
RmtNdLearn	Remote ND learning function	N/A	Boolean: • true—Enabled. • false—Disabled.	N/A
LocMacNtf	Local MAC address report	N/A	Boolean:	N/A

Column name	Column description function	Column type	Data type and restrictions	Remarks
			true—Enabled. false—Disabled.	
NextVxlanID	Next useful VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	You must enable global L2VPN feature at first. The invalid value 4294967295 indicates that no ID can be set.
TotalVxlanNum	Total number of existing VXLANs	N/A	Unsigned integer	You must enable global L2VPN feature at first.
ReservedVxlanID	Reserved VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	You must enable L2VPN feature globally at first.

VXLAN/VXLANs

This table contains information about VXLAN configurations.

XML structure

```

<VXLAN>
  <VXLANs>
    <Vxlan>
      <VxlanID></VxlanID>
      <VsiName></VsiName>
      <Ipv4Group>
        <GroupAddr></GroupAddr>
        <SrcAddr></SrcAddr>
      </Ipv4Group>
      <RmtMacCnt></RmtMacCnt>
      <TunnelAll></TunnelAll>
    </Vxlan>
  </VXLANs>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANs
Table type	Multi-instance table
Row name	Vxlan
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range: 0-16777215.	N/A
VsiName	VSI name	N/A	String, Length: 1 to 31 characters.	N/A
Ipv4Group	VXLAN multicast group structure	Data structure	Members include: - GroupAddr. - SrcAddr.	N/A
GroupAddr	IPv4 multicast address	N/A	String, dotted decimal notation.	Example: 224.1.1.1.
SrcAddr	IPv4 source address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
RmtMacCnt	The count of remote MAC addresses	N/A	Unsigned integer	N/A
TunnelAll	All tunnels	N/A	Boolean: true—Enabled. false—Disabled.	N/A

VXLAN/Tunnels

This table contains information about tunnels associated with VXLANs.

XML structure

```

<VXLAN>
  <Tunnels>
    <Tunnel>
      <VxlanID></VxlanID>
      <TunnelID></TunnelID>
      <Type></Type>
      <FloodingProxy></FloodingProxy>
      <State></State>
    </Tunnel>
  </Tunnels>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN

Item	Description
Table name	Tunnels
Table type	Multi-instance table
Row name	Tunnel
Restrictions	You must enable global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VxlanID	VXLAN ID	Index	Unsigned integer, Value range:0-16777215.	N/A
TunnelID	Tunnel ID	Index	Unsigned integer.	N/A
Type	Tunnel type	N/A	Enumeration: 0—auto. 1—manual. 2—auto and manual.	N/A
FloodingProxy	Flooding proxy	N/A	Boolean: - true—Enabled. - false—Disabled.	N/A
State	Tunnel state	N/A	Enumeration: 1—down. 2—up. 3—defect. 4—blocked.	1-down: The tunnel is not available. 2-up: The tunnel is available. 3-defect: BFD has detected a defect on the tunnel. 4-blocked: The tunnel is a backup tunnel.

VXLAN/RmtMACs

This table contains information about remote MAC addresses of each VXLAN.

XML structure

```

<VXLAN>
  <RmtMACs>
    <MAC>
      <VsiName></VsiName>
      <MacAddr></MacAddr>
      <TunnelID></TunnelID>
      <Status></Status>
    </MAC>
  </RmtMACs>

```

</VXLAN>

Table description

Item	Description
Feature name	VXLAN
Table name	RmtMACs
Table type	Multi-instance table
Row name	MAC
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, Length: 1 to 31 characters.	N/A
MacAddr	Remote MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
TunnelID	Tunnel ID	N/A	Unsigned integer	N/A
Status	Type of remote MAC address	N/A	Enumeration: • 0—other. • 1—static. • 2—selfLearned. • 3—protocolLearned. • 4—OpenFlow. • 5—OVSDB.	1- static: Manually configured static unicast address 2- selfLearned: Dynamically learned unicast address 3- protocolLearned: Unicast address added by protocol. 4- OpenFlow: Unicast address issued by a controller through OpenFlow 5- OVSDB: Unicast address issued by a controller through OVSDB.

VXLAN/VXLANAllocations

This table contains VXLAN allocate information in context.

XML structure

```
<VXLAN>
  <VXLANAllocations>
    <VXLANAllocation>
```

```

    <VXLANID></VXLANID>
    <ContextID></ContextID>
  </VXLANAllocation>
</VXLANAllocations>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	VXLANAllocations
Table type	Multi-instance table
Row name	VXLANAllocation
Restrictions	You must enable global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VXLANID	VXLAN ID	Index	Unsigned integer.	N/A
ContextID	Context ID	N/A	Unsigned integer.	N/A

VXLAN/EvpnVxlanEncaps

This table contains information about EVPN encapsulation associated with VXLANs.

XML structure

```

<VXLAN>
  <EvpnVxlanEncaps>
    <VxlanEncap>
      <VsiName></VsiName>
      <brDAuto></brDAuto>
      <RD></RD>
      <bIrtAuto></bIrtAuto>
      <bErtAuto></bErtAuto>
      <bMacAdvertise></bMacAdvertise>
      <bArpMacLearn></bArpMacLearn>
      <NdMacLearn></NdMacLearn>
      <MappingVni></MappingVni>
      <ArpAdvertise></ArpAdvertise>
    </VxlanEncap>
  </EvpnVxlanEncaps>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanEncaps
Table type	Multi-instance table
Row name	VxlanEncap
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
bRDAuto	RD Auto	N/A	Boolean: true—Enabled. false—Disabled.	N/A
RD	Route distinguisher.	Data structure	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A
blrtAuto	Import route target	N/A	Boolean: true—Enabled. false—Disabled.	N/A
bErtAuto	Export route target	N/A	Boolean: true—Enabled. false—Disabled.	N/A
bMacAdvertise	MAC advertise	N/A	Boolean: true—Enabled. false—Disabled.	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: true—Enabled. false—Disabled.	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: true—Enabled. false—Disabled.	N/A
MappingVni	Mapping VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	N/A
ArpAdvertise	ARP advertisement	N/A	Boolean: true—Enabled. false—Disabled.	N/A

VXLAN/EvpnVxlanRTs

This table contains information about EVPN route target associated with VXLANs.

XML structure

```
<VXLAN>
  <EvpnVxlanRTs>
    <VxlanRT>
      <VsiName></VsiName>
      <RTType></RTType>
      <RTEntry></RTEntry>
    </VxlanRT>
  </EvpnVxlanRTs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	EvpnVxlanRTs
Table type	Multi-instance table
Row name	VxlanRT
Restrictions	You must enabled global L2VPN feature at first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String. Length: 1 to 31 characters.	N/A
RTType	Route target type	Index	Enumeration: 1—Import 2—Export	N/A
RTEntry	VPN target	Index	String. Length: 3 to 21 characters. The format is ASN:nn or IP_address:nn	N/A

VXLAN/VRFs

This table contains VNIs associated with VPN instances.

XML structure

```
<VXLAN>
  <VRFs>
    <VRF>
      <VRF></VRF>
      <VNI></VNI>
    </VRF>
  </VRFs>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	You must enable L2VPN globally first.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VRF	VPN instance name	Index	String, case-sensitive. Length: 0 to 31 characters.	This column must be empty.
VNI	Layer 3VNI for the tenant	N/A	Unsigned integer. Length: 32 bits.	N/A

Comware V7 WLANClient NETCONF XML API Action Reference

Revision Record

Date	Revision Version	Change Description	Author
2015-5-16	V1.00	Initial	C09811

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WLANClient

WLANClient/ResetDynamicBlackList

This table contains information of dynamic black list resetting.

XML structure

```
<WLANClient>
  <ResetDynamicBlackList>
    <DynamicBlackList>
      <MacAddress></MacAddress>
    </DynamicBlackList>
  </ResetDynamicBlackList>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ResetDynamicBlackList
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0.	When MacAddress is empty, all client will be reset.

WLANClient/ResetClient

This table contains information of client resetting.

XML structure

```
<WLANClient>
  <ResetClient>
    <Client>
      <MacAddress></MacAddress>
    </Client>
  </ResetClient>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ResetClient
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	Client MAC address.	N/A	MAC address. Example: 00-0c-af-e3-5d-c0.	When MacAddress is empty, all client will be reset.

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WLANClient

WLANClient/ServiceTemplates

This table contains service template information.

XML structure

```
<WLANClient>
  <ServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <MaxClientCnt></MaxClientCnt>
      <Enable></Enable>
    </Template>
  </ServiceTemplates>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceTemplates
Table type	Multi-instance table
Row name	ServiceTemplate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name	Index	String, letter, number or '-', '[,]', '/', '-'. The length is 1 to 63.
SSID	Identifier of service set.		String, the length is 1 to 32.
DefaultVlan	DefaultVlan.		Unsigned integer. Value range: 1 to 4094.

Column name	Column description	Column type	Data type and restrictions
			The default value is 1.
HideSsid	Hiding status of SSID		Boolean: true—enabled. false—disabled, default value.
MaxClientCnt	Maximum clients of the BSS.		Unsigned integer. Value range: 1 to 2007. The default value is 0.
Enable	Status of service template.		Boolean: True or 1 : enabled. False or 0 : disabled. The default value is false.

WLANClient/ServiceBindings

This table contains service template binding information.

XML structure

```

<WLANClient>
  <ServiceBindings>
    <Binding>
      <ApName></ApName>
      <RadioId></RadioId>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
    </Binding>
  </ServiceBindings>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
Radiold	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[,]', '/', '\'. The length is 1 to 63.
Vlan	VLAN.		Unsigned integer. Value range: 1 to 4094. .
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.

WLANClient/ServiceSecurity

This table contains security information of service template.

XML structure

```

<WLANClient>
  <ServiceSecurity>
    <Security>
      <Name></Name>
      <WpaIeSelected></WpaIeSelected>
      <RsnIeSelected></RsnIeSelected>
      <TkipSelected></TkipSelected>
      <CcmpSelected></CcmpSelected>
      <Wep40Selected></Wep40Selected>
      <Wep104Selected></Wep104Selected>
      <Wep128Selected></Wep128Selected>
      <AkmMode></AkmMode>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
      <PtkLifeTime></PtkLifeTime>
      <GtkUpdateEnable></GtkUpdateEnable>
      <GtkUpdateMode></GtkUpdateMode>
      <GtkUpdateTime></GtkUpdateTime>
      <GtkPacketNumber></GtkPacketNumber>
      <ClientOffUpdateGtk></ClientOffUpdateGtk>
      <TkipCmTime></TkipCmTime>
    
```

```

    </Security>
  </ServiceSecurity>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceSecurity
Table type	Multi-instance table
Row name	Security
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, letter, number or '-', '[,]', '/', '-'. The length is 1 to 63.	N/A
WpaSelected	Is Security IE WPA selecte.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
RsnSelected	Is Security IE RSN selecte.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
TkipSelected	Tkip is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
CcmpSelected	Ccmp is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
Wep40Selected	Wep40 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The default value is false.	
Wep104Selected	Wep104 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
Wep128Selected	Wep128 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
AkmMode	AKM mode.		Enumeration. 1: 802.1x. 2: PSK.	N/A
PskInputMode	PSK input mode.		Enumeration. 1: pass-phrase. 2: rawkey.	N/A
PskPassPhraseKey	Pre-shared key.		String.	PSK is a string including 8-63 alphanumeric characters.
PskRawKey	Raw key		String	PSK is a string including 64 hex characters.
PtkLifeTime	PTK life time.		Unsigned integer. Unit is second. Value range: 180-604800. The default value is 43200.	N/A
GtkUpdateEnabled	Whether GTK update is enabled.		Boolean. True or 1 : update. False or 0 : no update. The default value is true.	N/A
GtkUpdateMode	GTK update mode.		Enumeration. 1 : based on time. 2 : based on packet number. The default value is 1.	N/A
GtkUpdateTime	GTK update time interval.		Unsigned integer. Unit is second. Value range is 180 to 604800. The default value is 86400.	N/A
GtkPacketNumber	GTK update packet number threshold.		Unsigned integer. Value range is 5000 to 4294967295. The default value is 10000000.	N/A
ClientOffUp	Whether to		Boolean.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
dateGtk	update GTK when client goes offline.		True or 1: update. False or 0 : no update. The default value is false.	
TkipCmTime	Interval time of TKIP counter measures.		Unsigned integer. Value range is 0 to 3600. Unit is second. The default value is 0 which means no counter measures.	N/A

WLANClient/ServiceWepKey

This table contains security wep key information of service template.

XML structure

```

<WLANClient>
  <ServiceWepKey>
    <WepKey>
      <ServiceName></ServiceName>
      <WepKeyId></WepKeyId>
      <CipherSuite></CipherSuite>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
      <IsSelected></IsSelected>
    </WepKey>
  </ServiceWepKey>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceWepKey
Table type	Multi-instance table
Row name	WepKey
Restrictions	None

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceName	Service template name	Index	String, letter, number or '-', '[,]', '/', ':'. The length is 1 to 63.	N/A
WepKeyId	WEP key ID	Index	Enumeration. Value range: 1 to 4.	N/A
CipherSuite	WEP cipher suite.		Enumeration. 1 : wep40. 5 : wep104. 7 : wep128.	N/A
KeyInputType	Key Type		Enumeration. 1 : PassPhrase. 2 : RawKey	N/A
Wep40PassPhraseKey	Wep40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	Wep40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	Wep104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	Wep104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	Wep128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	Wep128 key in raw		String.	The key is 32 hex characters.
IsSelected	Is this wep key Selected.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A

WLANClient/RadioWmm

This table contains radio WMM information.

XML structure

```
<WLANClient>
  <RadioWmm>
    <Wmm>
      <ApName></ApName>
      <RadioId></RadioId>
      <Enable></Enable>
      <SvpMapAc></SvpMapAc>
      <CacPolicy></CacPolicy>
      <CacUserNum></CacUserNum>
      <CacChannelUtilization></CacChannelUtilization>
    </Wmm>
  </RadioWmm>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
Enable	WMM status of radio		Boolean. True or 1 : enabled False or 0 : disabled The default value is true.
SvpMapAc	Access category of SVP		Enumeration 2 : vi 3 : vo

Column name	Column description	Column type	Data type and restrictions
CacPolicy	CAC policy		Enumeration. 1 : channel utilization. 2 : based on client number. The default value is 2.
CacUserNum	CAC client number threshold		Unsigned integer. Value range is 0 to 124. The default value is 20.
CacChannelUtilization	CAC channel utilization threshold.		Unsigned integer. Unit is percent. Value range is 0 to 100. The default value is 65.

WLANClient/ClientEdca

This table contains client EDCA information.

XML structure

```

<WLANClient>
  <ClientEdca>
    <Edca>
      <ApName></ApName>
      <RadioId></RadioId>
      <AccessCategory></AccessCategory>
      <Aifsn></Aifsn>
      <TxOpLimit></TxOpLimit>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <CacEnable></CacEnable>
    </Edca>
  </ClientEdca>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientEdca
Table type	Multi-instance table
Row name	Edca
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.	N/A
Radioid	Radio identifier.	Index	Unsigned char. Value range is 1 to 4	N/A
AccessCategory	Access category.	Index	Enumeration. 0 : be. 1 : bk. 2 : vi 3 : vo	N/A
Aifsn	Arbitration Inter Frame Spacing Number		Unsigned integer. Value range is 2 to 15, and is restricted by chipset.	N/A
TxOpLimit	Transmission opportunity limit		Unsigned number. Value range is 0 to 65535. Unit is millisecond.	N/A
Ecwmin	Exponent form of CWmin		Unsigned integer. Value range is 1 to 15.	N/A
Ecwmax	Exponent form of CWmax		Unsigned integer. Value range is 1 to 15.	N/A
CacEnable	Whether CAC is enabled.		Boolean. True or 1 : enabled. False or 0 : disabled. The default value is false.	When ac is vi or vo, Cac can be configured.

WLANClient/MobilityRole

This table contains mobility role information.

XML structure

```

<WLANClient>
  <MobilityRole>
    <Role></Role>
    <MAIPv4Address></MAIPv4Address>
    <MAIPv6Address></MAIPv6Address>
  
```



```

    </MobilityRole>
  </WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityRole
Table type	single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Role	Mobility role of the device.		Enumeration. 0 : not configured, default value. 1 : ma 2 : mc
MAIPv4Address	IPv4 address of mobility agent.		Ipv4Address
MAIPv6Address	IPv6 address of mobility agent.		Ipv6Address 若Ipv4和Ipv6同时存在下, 则Ipv6有效

WLANClient/MobilityGroups

This table contains mobility group information.

XML structure

```

<WLANClient>
  <MobilityGroups>
    <MobilityGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
    </MobilityGroup>
  </MobilityGroups>
</WLANClient>

```

```

    <Enable></Enable>
  </MobilityGroup>
</MobilityGroups>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityGroups
Table type	Multi-instance table
Row name	MobilityGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4 10 : IPv6
SourceIpv4 Address	Source IPv4 address		Ipv4Address
SourceIpv6 Address	Source IPv6 address		Ipv6Address
Enable	Status of mobility group.		Boolean. True or 1 : enabled. False or 0 : disabled. The default value is false.

WLANClient/MobilityIPv4Members

This table contains mobility group IPv4 member information.

XML structure

```

<WLANClient>
  <MobilityIPv4Members>

```

```

    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
    </Member>
  </MobilityIPv4Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/MobilityIPv6Members

This table contains mobility group IPv6 member information.

XML structure

```

<WLANClient>
  <MobilityIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </MobilityIPv6Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv6Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/MobilityPeerGroups

This table contains mobility peer group information.

XML structure

```
<WLANClient>
  <MobilityPeerGroups>
    <MobilityPeerGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <Enable></Enable>
    </MobilityPeerGroup>
  </MobilityPeerGroups>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityPeerGroups

Table type	Multi-instance table
Row name	MobilityPeerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4 10 : IPv6
Enable	Status of mobility peer group.		Boolean. True or 1: enabled. False or 0 : disabled. The default value is false.

WLANClient/PeerGroupIPv4Members

This table contains mobility peer group IPv4 member information.

XML structure

```

<WLANClient>
  <PeerGroupIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIPv4Address></MemberIPv4Address>
    </Member>
  </PeerGroupIPv4Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv4Members
Table type	Multi-instance table
Row name	Member

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/PeerGroupIPv6Members

This table contains mobility peer group IPv6 member information.

XML structure

```

<WLANClient>
  <PeerGroupIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </PeerGroupIPv6Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv6Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/Layer2Authentication

This table contains WLAN access security's authenticating configurations in service template.

XML structure

```
<WLANClient>
  <Layer2Authentication>
    <Authentication>
      <ServiceTemplateName></ServiceTemplateName>
      <AuthenticationMode></AuthenticationMode>
      <IntrusionProtectionEnable></IntrusionProtectionEnable>
      <IntrusionProtectionOperation></IntrusionProtectionOperation>
      <TemporaryServiceStopTimer></TemporaryServiceStopTimer>
      <TemporaryBlockTimer></TemporaryBlockTimer>
      <IgnoreAuthorization></IgnoreAuthorization>
      <AuthorizationFailOffline></AuthorizationFailOffline>
      <AccountingFailOffline></AccountingFailOffline>
      <Dot1xHandshakeEnable></Dot1xHandshakeEnable>
      <Dot1xSecurityHandshakeEnable></Dot1xSecurityHandshakeEnable>
      <Dot1xReauthenticationEnable></Dot1xReauthenticationEnable>
      <Dot1xMandatoryDomain></Dot1xMandatoryDomain>
      <Dot1xMaxUserCount></Dot1xMaxUserCount>
      <MACAuthenticationDomain></MACAuthenticationDomain>
      <MACAuthenticationMaxUserCount></MACAuthenticationMaxUserCount>
    </Authentication>
  </Layer2Authentication>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2Authentication
Table type	Multi-instance table

Row name	Authentication
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[,]', '/', ':'. The length is 1 to 63.	
AuthenticationMode	Authentication mode of the service template	N/A	Enumeration: 0 : bypass. 1 : mac authentication 2 : mac then dot1x authentication 3 : dot1x authentication 4 : dot1x then mac authentication 5 : oui then dot1x	Default status is bypass.
IntrusionProtectionEnable	Enable Intrusion Protection of the Service Template	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled.
IntrusionProtectionOperation	Operation mode when intrusion detected	N/A	Enumeration: 0 : temporary block mac. 1 : temporary stop the service 2 : stop service	
TemporaryServiceStopTimer	Period value of temporarily stop service	N/A	Unsigned integer Value range is 10 to 300.	Default value is 20 s.
TemporaryBlockTimer	Period value of temporarily block user mac	N/A	Unsigned integer Value range is 60 to 300.	Default value is 180 s.
IgnoreAuthorization	Ignore all authorization information set by server.	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled.
AuthorizationFailOffline	Users are offline if the authorizing failed.	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
AccountingFailOffline	Users are offline if the accounting request failed.	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
Dot1xHandshakeEnable	Enable handshake	N/A	Boolean: True or 1 : enabled.	Default status is disabled

Column name	Column description	Column type	Data type and restrictions	Remarks
	feature of dot1x		False or 0 : disabled.	
Dot1xSecurityHandshakeEnable	Enable secure handshake feature of dot1x	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled, and handshake feature should be enabled first.
Dot1xReauthenticationEnable	Enable re-authentication feature of dot1x	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled.
Dot1xMandatoryDomain	Mandatory domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	No default value.
Dot1xMaxUserCount	Max dot1x user numbers for a bss bound to this service template	N/A	Unsigned integer Value range is 1 to 4096.	Default value is 4096.
MACAuthenticationDomain	Domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	
MACAuthenticationMaxUserCount	Max MAC authentication user numbers for a bss bound to this service template	N/A	Unsigned integer Value range is 1 to 4096.	

WLANClient/APs

This table contains AP configuration information.

XML structure

```

<WLANClient>
  <APs>
    <AP>
      <Name></Name>
      <IdleTime></IdleTime>
      <KeepAliveTime></KeepAliveTime>
      <BandNaviStatus></BandNaviStatus>
    </AP>
  </APs>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	APs
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
IdleTime	Station Idle time	N/A	Unsigned integer. Value range: 60s to 86400s. The default value is 3600s.	N/A
KeepAliveTime	Keeping alive time of station	N/A	Unsigned integer. Value range: 3s to 1800s. The default value is 300s, which means disabled.	N/A
BandNaviStatus	Band navigation status	N/A	Enumeration. 0—disabled. 1—enabled. 2—inherit(default).	Effective only when global BandNaviStatus is enabled.

WLANClient/APGroup

This table contains AP group configuration information.

XML structure

```
<WLANClient>
  <APGroup>
    <Group>
      <Name></Name>
      <BandNaviStatus></BandNaviStatus>
```

```

    </Group>
  </APGroup>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
BandNaviStatus	Band navigation status	N/A	Boolean. - false—disabled - true—enabled (default)	Effective only when global BandNaviStatus is enabled.

WLANClient/BandNavigation

This table contains band navigation information.

XML structure

```

<WLANClient>
  <BandNavigation>
    <GlobalStatus></GlobalStatus>
    <AgingTime></AgingTime>
    <DenialCnt></DenialCnt>
    <Session></Session>
    <Gap></Gap>
    <Threshold></Threshold>
  </BandNavigation>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	BandNavigation
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GlobalStatus	Global status of band navigation	N/A	Boolean. - false—disabled(default). - true—enabled.
AgingTime	Client information aging time	N/A	Unsigned integer. Unit is second. Value range: 10 to 600. The default value is 180.
DenialCnt	Maximum number of denials for 5 GHz association requests	N/A	Unsigned integer. Value range: 1 to 10. The default value is 0.
Session	Client number threshold for the 5 GHz radio	N/A	Unsigned integer. Value range: 2 to 120.
Gap	Threshold for the session gap between the current 5 GHz radio and the radio that has the fewest clients	N/A	Unsigned integer. Value range: 1 to 8. The default value is 4.
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100. The default value is 15.

WLANClient/LoadBalance

This table contains load balancing information.

XML structure

```
<WLANClient>
  <LoadBalance>
    <Status></Status>
    <Mode></Mode>
```

```

    <Bandwidth></Bandwidth>
    <BandwidthGap></BandwidthGap>
    <Session></Session>
    <SessionGap></SessionGap>
    <Traffic></Traffic>
    <TrafficGap></TrafficGap>
    <DenialNum></DenialNum>
    <Threshold></Threshold>
  </LoadBalance>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WLAN load balancing status	N/A	Boolean. - false—disabled(default). - true—enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration: 1—session-mode(default). 2—traffic-mode. 3—bandwidth-mode.	N/A
Session	Session threshold in number of clients	N/A	Unsigned integer. Value range:1 to 120. The default value is 20.	This column can be configured only when the Mode is session-mode (1).To delete value just input Mode label.
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range:1 to 8. The default value is 4.	This column cannot be configured if the Session is not configured. To delete value just input Mode label.
Bandwidth	Bandwidth threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to	This column can be configured only when the

Column name	Column description	Column type	Data type and restrictions	Remarks
			500. The default value is 40.	Mode is bandwidth-mode (3). To delete value just input Mode label.
Bandwidth Gap	Bandwidth gap threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 200. The default value is 20.	This column cannot be configured if the Bandwidth is not configured. To delete value just input Mode label.
Traffic	Traffic threshold	N/A	Unsigned integer. Unit is percent. Value range:1 to 80. The default value is 30.	This column can be configured only when the Mode is traffic -mode (2). To delete value just input Mode label.
TrafficGap	Traffic gap threshold	N/A	Unsigned integer. Unit is percent. Value range:10 to 40. The default value is 20.	This column cannot be configured if theTraffic is not configured. To delete value just input Mode label.
DenialNum	Maximum number of denials for association requests	N/A	Unsigned integer. Value range:2 to 10.The default value is 10.	N/A
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range:5 to 100.The default value is 25.	N/A

WLANClient/LoadBalanceGroup

This table contains load balancing group information.

XML structure

```

<WLANClient>
  <LoadBalanceGroup>
    <Group>
      <GroupId></GroupId>
      <GroupDescription></GroupDescription>
    </Group>
  </LoadBalanceGroup>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalanceGroup

Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.
GroupDescription	Description for the load balancing group	N/A	String, case-sensitive. Length: 1 to 64 characters.

WLANClient/RadioInLBGroup

This table contains radio information of radios in the load balancing group.

XML structure

```

<WLANClient>
  <RadioInLBGroup>
    <Radio>
      <GroupId></GroupId>
      <ApName></ApName>
      <RadioId></RadioId>
    </Radio>
  </RadioInLBGroup>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioInLBGroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.
RadioId	Radio identifier	Index	Unsigned integer. Value range: 1 to 31

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WLANClient

WLANClient/APAssociations

This table contains AP association information.

XML structure

```
<WLANClient>
  <APAssociations>
    <Association>
      <Name></Name>
      <Total></Total>
      <Reassociation></Reassociation>
      <Failure></Failure>
      <Rejection></Rejection>
      <Exception></Exception>
      <Current></Current>
    </Association>
  </APAssociations>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APAssociations
Table type	Multi-instance table
Row name	Association
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	AP name	Index	String, lowercase. Length: 1 to 63 characters.
Total	Total associations		Unsigned integer

Column name	Column description	Column type	Data type and restrictions
Reassociation	Reassociations		Unsigned integer
Failure	Association failures		Unsigned integer
Rejection	Rejections of association		Unsigned integer
Exception	Exceptional associations		Unsigned integer
Current	Current associations		Unsigned integer

WLANClient/ServiceTemplates

This table contains service template information.

XML structure

```

<WLANClient>
  <ServiceTemplates>
    <Template>
      <Name></Name>
      <SSID></SSID>
      <DefaultVlan></DefaultVlan>
      <HideSsid></HideSsid>
      <MaxClientCnt></MaxClientCnt>
      <Enable></Enable>
    </Template>
  </ServiceTemplates>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceTemplates
Table type	Multi-instance table
Row name	Template
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name	Index	String, letter, number or '-', '[', ']', '/', '\'. The length is 1 to 63.
SSID	Identifier of service set.		String, the length is 1 to 32.
DefaultVlan	DefaultVlan		Unsigned integer. Value range: 1 to 4094. The default value is 1.
HideSsid	Hiding status of SSID		Boolean: true—enabled. false—disabled, default value.
MaxClientCnt	Maximum clients of the BSS.		Unsigned integer. Value range: 1 to 2007. The default value is 0. Value 0 : the number is not restricted.
Enable	Status of service template.		Boolean: True or 1 : enabled. False or 0 : disabled. The default value is false.

WLANClient/ServiceBindings

This table contains service template binding information.

XML structure

```

<WLANClient>
  <ServiceBindings>
    <Binding>
      <ApName></ApName>
      <RadioId></RadioId>
      <ServiceTemplateName></ServiceTemplateName>
      <Vlan></Vlan>
      <VlanGroup></VlanGroup>
    </Binding>
  </ServiceBindings>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceBindings
Table type	Multi-instance table
Row name	Binding
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[', ']', '/', '\'. The length is 1 to 63.
Vlan	VLAN.		Unsigned integer. Value range: 1 to 4094.
VlanGroup	VlanGroup		String. Length: 1 to 31 characters.

WLANClient/ServiceConnections

This table contains service template connection information.

XML structure

```
<WLANClient>
  <ServiceConnections>
    <Connection>
      <Name></Name>
      <ApName></ApName>
      <RadioId></RadioId>
    </Connection>
  </ServiceConnections>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceConnections
Table type	Multi-instance table
Row name	Connection
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Service template name.	Index	String, letter, number or '-', '[,]', '/', '\'. The length is 1 to 63.
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
Radioid	Radio identifier.	Index	Unsigned char. Value range: 1 to 4

WLANClient/ServiceSecurity

This table contains security information of service template.

XML structure

```
<WLANClient>
  <ServiceSecurity>
    <Security>
      <Name></Name>
      <WpaIeSelected></WpaIeSelected>
      <RsnIeSelected></RsnIeSelected>
      <TkipSelected></TkipSelected>
      <CcmpSelected></CcmpSelected>
      <Wep40Selected></Wep40Selected>
      <Wep104Selected></Wep104Selected>
      <Wep128Selected></Wep128Selected>
      <AkmMode></AkmMode>
      <PskInputMode></PskInputMode>
      <PskPassPhraseKey></PskPassPhraseKey>
      <PskRawKey></PskRawKey>
```



```

    <PtkLifeTime></PtkLifeTime>
    <GtkUpdateEnable></GtkUpdateEnable>
    <GtkUpdateMode></GtkUpdateMode>
    <GtkUpdateTime></GtkUpdateTime>
    <GtkPacketNumber></GtkPacketNumber>
    <ClientOffUpdateGtk></ClientOffUpdateGtk>
    <TkipCmTime></TkipCmTime>
  </Security>
</ServiceSecurity>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ServiceSecurity
Table type	Multi-instance table
Row name	Security
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Service template name	Index	String, letter, number or '-', '[,]', '/', '-'. The length is 1 to 63.	N/A
WpaSelected	Is Security IE WPA selecte.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
RsnSelected	Is Security IE RSN selecte.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
TkipSelected	Tkip is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CcmpSelected	Ccmp is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
Wep40Selected	Wep40 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
Wep104Selected	Wep104 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
Wep128Selected	Wep128 is selected cipher		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
AkmMode	AKM mode.		Enumeration. 1 : 802.1x. 2 : PSK.	N/A
PskInputMode	PSK input mode.		Enumeration. 1 : pass-phrase. 2 : rawkey.	N/A
PskPassPhraseKey	Pre-shared key.		String.	PSK is a string including 8-63 alphanumeric characters.
PskRawKey	Raw key		String	PSK is a string including 64 hex characters.
PtkLifeTime	PTK life time.		Unsigned integer. Unit is second. Value range is 180 to 604800. The default value is 43200.	N/A
GtkUpdateEnabled	Whether GTK update is enabled.		Boolean. True or 1 : update. False or 0 : no update. The default value is false.	N/A
GtkUpdateMode	GTK update mode.		Enumeration. 1: based on time. 2 : based on packet number.	N/A
GtkUpdateTime	GTK update time interval.		Unsigned integer. Unit is second. Value range is 180 to 604800. The	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			default value is 86400.	
GtkPacketNumber	GTK update packet number threshold.		Unsigned integer. Value range is 5000 to 4294967295. The default value is 10000000.	N/A
ClientOffUpdateGtk	Whether to update GTK when client goes offline.		Boolean. True or 1 : update. False or 0 : no update. The default value is false.	N/A
TkipCmTime	Interval time of TKIP counter measures.		Unsigned integer. Value range is 0 to 3600. Unit is second. The default value is 0 which means no counter measures.	N/A

WLANClient/ServiceWepKey

This table contains security wep key information of service template.

XML structure

```

<WLANClient>
  <ServiceWepKey>
    <WepKey>
      <ServiceName></ServiceName>
      <WepKeyId></WepKeyId>
      <CipherSuite></CipherSuite>
      <KeyInputType></KeyInputType>
      <Wep40PassPhraseKey></Wep40PassPhraseKey>
      <Wep40RawKey></Wep40RawKey>
      <Wep104PassPhraseKey></Wep104PassPhraseKey>
      <Wep104RawKey></Wep104RawKey>
      <Wep128PassPhraseKey></Wep128PassPhraseKey>
      <Wep128RawKey></Wep128RawKey>
      <IsSelected></IsSelected>
    </WepKey>
  </ServiceWepKey>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient

Table name	ServiceWepKey
Table type	Multi-instance table
Row name	WepKey
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceName	Service template name	Index	String, letter, number or '-', '[,]', '/', '-'. The length is 1 to 63.	N/A
WepKeyId	WEP key ID	Index	Enumeration. Value range: 1 to 4.	N/A
CipherSuite	WEP cipher suite.		Enumeration. 1 : wep40. 5 : wep104. 7 : wep128.	N/A
KeyInputType	Key Type		Enumeration. 1 : PassPhrase. 2 : RawKey	N/A
Wep40PassPhraseKey	Wep40 key in pass-phrase		String.	The key is 5 alphanumeric characters.
Wep40RawKey	Wep40 key in raw		String.	The key is 10 hex characters.
Wep104PassPhraseKey	Wep104 key in pass-phrase		String.	The key is 13 alphanumeric characters.
Wep104RawKey	Wep104 key in raw		String.	The key is 26 hex characters.
Wep128PassPhraseKey	Wep128 key in pass-phrase		String.	The key is 16 alphanumeric characters.
Wep128RawKey	Wep128 key in raw		String.	The key is 32 hex characters.
IsSelected	Is this wep key Selected.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A

WLANClient/Stations

This table contains station summary information.

XML structure

```
<WLANClient>
  <Stations>
    <Station>
      <MacAddress></MacAddress>
      <UserName></UserName>
      <Aid></Aid>
      <ApName></ApName>
      <RadioId></RadioId>
      <Ssid></Ssid>
      <Bssid></Bssid>
      <VLAN></VLAN>
      <PowerSaveMode></PowerSaveMode>
      <ListenInterval></ListenInterval>
      <UpTime></UpTime>
      <QoSMode></QoSMode>
    </Station>
  </Stations>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	Stations
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
UserName	User name of station.		String	N/A
Aid	Association ID		Unsigned integer	N/A
ApName	AP name		String	N/A

Radiold	Radio ID		Unsigned char	N/A
Ssid	SSID		String	N/A
Bssid	BSS ID		MAC address	N/A
Vlan	VLAN		Unsigned integer	N/A
PowerSave Mode	Power save status		Enumeration. 0 : active 1: sleep	N/A
ListenInterval	Listen interval		Unsigned integer	N/A
RSSI	RSSI		Unsigned integer	N/A
RxRate	Reception rate		String	N/A
TxRate	Transmission rate		String	N/A
UpTime	Up time		Integer	N/A
QoSMode	Qosmode		Enumeration. 0 : doesn't support any qos mode 1 : support mode WMM 2 : support mode 11e 3 : support mode WMM and 11e	N/A

WLANClient/Station11nInformation

This table contains station 11n information.

XML structure

```

<WLANClient>
  <Station11nInformation>
    <Dot11n>
      <MacAddress></MacAddress>
      <WirelessMode></WirelessMode>
      <SupportMCSSet></SupportMCSSet>
    </Dot11n>
  </Station11nInformation>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	Station11nInformation

Table type	Multi-instance table
Row name	11n
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
WirelessMode	Wireless mode		Enumeration. 1 : 802.11b 2 : 802.11a 4 : 802.11g 8 : 802.11gn 16 : 802.11an 64 : 802.11ac	N/A
SupportMCSSet	Supported MCS		String	N/A

WLANClient/StationSecurityInformation

This table contains station security information.

XML structure

```

<WLANClient>
  <StationSecurityInformation>
    <Security>
      <MacAddress></MacAddress>
      <ClientType></ClientType>
      <AkmMethod></AkmMethod>
      <EncryptionCipher></EncryptionCipher>
    </Security>
  </StationSecurityInformation>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	StationSecurityInformation
Table type	Multi-instance table

Row name	Security
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
ClientType	Client type		Enumeration. 0 : pre-rsn 1: WPA 2 : RSN	N/A
AkmMethod	AKM method		Enumeration.1 : 802.1x 2 : PSK	N/A
EncryptionCipher	Encryption cipher		Enumeration. 0 : USEGROUP 1 : WEP40 2 : TKIP 4 : CCMP 5 : WEP104 6 : BIP 7 : WEP128 255 : CLEAR 255 : CLEAR	N/A

WLANClient/StationRoamInformation

This table contains station roam information.

XML structure

```

<WLANClient>
  <StationRoamInformation>
    <Roam>
      <MacAddress></MacAddress>
      <RoamStatus></RoamStatus>
    </Roam>
  </StationRoamInformation>
</WLANClient>

```


Table description

Item	Description
Feature name	WLANClient
Table name	StationRoamInformation
Table type	Multi-instance table
Row name	Roam
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
RoamStatus	Roam status		Enumeration.0 : NORMAL. 1 : SEARCHING. 2 : SLOW. 3 : FAST. 4 : ROAMAUTHING. 5 : ROAMFAILED. 6 : INTRAAC_SLOW. 7 : INTERAC_SLOW, 8 : INTRAAC_FAST, 9 : INTERAC_FAST. 10 : INTRAMA_SLOW. 11 : INTERMA_SLOW. 12 : INTRAMA_FAST. 13 : INTERMA_FAST. 14 : ROAMBACK_SLOW. 15 : ROAMBACK_FAST. 16 : INTRABSSID_FAST. 17 : INTRABSSID_SLOW.	N/A

WLANClient/StationStatistics

This table contains station statistics information.

XML structure

```
<WLANClient>
  <StationStatistics>
    <Statistics>
      <MacAddress></MacAddress>
    </Statistics>
  </StationStatistics>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
TxBkFrames	Transmitted background frames		Unsigned integer64	N/A
TxBkBytes	Transmitted background bytes		Unsigned integer64	N/A
TxBeframes	Transmitted besteffort frames		Unsigned integer64	N/A
TxBefBytes	Transmitted besteffort bytes		Unsigned integer64	N/A
TxViFrames	Transmitted video frames		Unsigned integer64	N/A
TxViBytes	Transmitted video bytes		Unsigned integer64	N/A
TxVoFrames	Transmitted voice frames		Unsigned integer64	N/A
TxVoBytes	Transmitted voice bytes		Unsigned integer64	N/A

RxBkFrames	Received background frames		Unsigned integer64	N/A
RxBkBytes	Received background bytes		Unsigned integer64	N/A
RxBeframes	Received besteffort frames		Unsigned integer64	N/A
RxBefBytes	Received besteffort bytes		Unsigned integer64	N/A
RxViFrames	Received video frames		Unsigned integer64	N/A
RxViBytes	Received video bytes		Unsigned integer64	N/A
RxVoFrames	Received voice frames		Unsigned integer64	N/A
RxVoBytes	Received voice bytes		Unsigned integer64	N/A
DropBkFrames	Dropped background frames		Unsigned integer64	N/A
DropBkBytes	Dropped background bytes		Unsigned integer64	N/A
DropBefFrames	Dropped besteffort frames		Unsigned integer64	N/A
DropBefBytes	Dropped besteffort bytes		Unsigned integer64	N/A
DropViFrames	Dropped video frames		Unsigned integer64	N/A
DropViBytes	Dropped video bytes		Unsigned integer64	N/A
DropVoFrames	Dropped voice frames		Unsigned integer64	N/A
DropVoBytes	Dropped voice bytes		Unsigned integer64	N/A

WLANClient/RadioWmm

This table contains radio WMM information.

XML structure

<WLANClient>

```

<RadioWmm>
  <Wmm>
    <ApName></ApName>
    <RadioId></RadioId>
    <Enable></Enable>
    <SvpMapAc></SvpMapAc>
    <CacPolicy></CacPolicy>
    <CacUserNum></CacUserNum>
    <CacChannelUtilization></CacChannelUtilization>
  </Wmm>
</RadioWmm>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioWmm
Table type	Multi-instance table
Row name	Wmm
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4
Enable	WMM status of radio		Boolean. True or 1 : enable False or 0 : disable The default value is true.
SvpMapAc	Access category of SVP		Enumeration. 2 : vi 3 : vo
CacPolicy	CAC policy		Enumeration. 1 : channel utilization. 2 : based on client number.

Column name	Column description	Column type	Data type and restrictions
			The default value is 2.
CacUserNum	CAC client number threshold		Unsigned integer. Value range is 0 to 124. The default value is 20.
CacChlUtilValue	CAC channel utilization threshold.		Unsigned integer. Unit is percent. Value range is 0 to 100. The default value is 65.

WLANClient/ClientEdca

This table contains client EDCA information.

XML structure

```

<WLANClient>
  <ClientEdca>
    <Edca>
      <ApName></ApName>
      <RadioId></RadioId>
      <AccessCategory></AccessCategory>
      <Aifsn></Aifsn>
      <TxOpLimit></TxOpLimit>
      <Ecwmin></Ecwmin>
      <Ecwmax></Ecwmax>
      <CacEnable></CacEnable>
    </Edca>
  </ClientEdca>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	ClientEdca
Table type	Multi-instance table
Row name	Edca
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 63 characters.	N/A
Radiold	Radio identifier.	Index	Unsigned char. Value range: 1 to 4	N/A
AccessCategory	Access category.	Index	Enumeration. 0 : be. 1 : bk. 2 : vi 3 : vo	N/A
Aifsn	Arbitration Inter Frame Spacing Number		Unsigned integer. Value range is 2 to 15, and is restricted by chipset.	N/A
TxOpLimit	Transmission opportunity limit		Unsigned number. Value range is 0 to 65535. Unit is millisecond.	N/A
Ecwmin	Exponent form of CWmin		Unsigned integer. Value range is 1 to 15.	N/A
Ecwmax	Exponent form of CWmax		Unsigned integer. Value range is 1 to 15.	N/A
CacEnable	Whether CAC is enabled.		Boolean. True or 1 : enabled. False or 0 : disabled. The default value is false.	When ac is vi or vo, Cac can be configured.

WLANClient/StationWmmInformation

This table contains station WMM information.

XML structure

```

<WLANClient>
  <StationWmmInformation>
    <Wmm>
      <MacAddress></MacAddress>
      <SSID></SSID>
      <QoSMode></QoSMode>
    </Wmm>
  </StationWmmInformation>

```

</WLANClient>

Table description

Item	Description
Feature name	WLANClient
Table name	StationWmmInformation
Table type	Multi-instance table
Row name	Wmm
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
SSID	SSID		String	N/A
QoSMode	QoS mode		0 : doesn't support any qos mode 1 : support mode WMM 2 : support mode 11e 3 : support mode WMM and 11e	N/A

WLANClient/MobilityRole

This table contains mobility role information.

XML structure

```
<WLANClient>
  <MobilityRole>
    <Role></Role>
    <MAIPv4Address></MAIPv4Address>
    <MAIPv6Address></MAIPv6Address>
  </MobilityRole>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityRole
Table type	single-instance table
Row name	Noe
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
Role	Mobility role of the device.		Enumeration. 0 : not configured, default value. 1 : ma 2 : mc
MAIPv4Address	IPv4 address of mobility agent.		Ipv4Address
MAIPv6Address	IPv6 address of mobility agent.		Ipv6Address 若Ipv4和Ipv6同时存在下，则Ipv6有效

WLANClient/MobilityGroups

This table contains mobility group information.

XML structure

```
<WLANClient>
  <MobilityGroups>
    <MobilityGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <SourceIpv4Address></SourceIpv4Address>
      <SourceIpv6Address></SourceIpv6Address>
      <Enable></Enable>
    </MobilityGroup>
  </MobilityGroups>
```


</WLANClient>

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityGroups
Table type	Multi-instance table
Row name	MobilityGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4. 10 : IPv6
SourceIpv4 Address	Source IPv4 address		Ipv4Address
SourceIpv6 Address	Source IPv6 address		Ipv6Address
Enable	Status of mobility group.		Boolean. True or 1 : enabled. False or 0 : disabled.

WLANClient/MobilityIPv4Members

This table contains mobility group IPv4 member information.

XML structure

```
<WLANClient>
  <MobilityIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
      <Status></Status>
      <UpTime></UpTime>
```

```

    </Member>
  </MobilityIPv4Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.
Status	Mobility Status		Enumeration. 1 : up 2 : down
UpTime	Online Time		Unsigned integer.

WLANClient/MobilityIPv6Members

This table contains mobility group IPv6 member information.

XML structure

```

<WLANClient>
  <MobilityIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
      <Status></Status>
      <UpTime></UpTime>
    </Member>
  </MobilityIPv6Members>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.
Status	Mobility Status		Enumeration. 1 : up 2 : down
UpTime	Online Time		Unsigned integer.

WLANClient/RoamInStation

This table contains station roam in information.

XML structure

```
<WLANClient>
  <RoamInStation>
    <Station>
      <MacAddress></MacAddress>
      <BssID></BssID>
      <VlanID></VlanID>
      <OnlineTime></OnlineTime>
      <HomeAcIpv4></HomeAcIpv4>
      <HomeAcIpv6></HomeAcIpv6>
    </Station>
  </RoamInStation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamInStation
Table type	Multi-instance table
Row name	Station
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
BssID	BSS ID		MAC address	N/A
VlanID	VLAN-ID		Unsigned integer 1 to 4094	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
HomeAcIpv4	Home AC IPv4		String	N/A
HomeAcIpv6	Home AC Ipv6		String	N/A

WLANClient/RoamOutStation

This table contains station roam out information.

XML structure

```
<WLANClient>
  <RoamOutStation>
    <RoamOutStaInfo>
      <MacAddress></MacAddress>
      <BssID></BssID>
      <VlanID></VlanID>
      <OnlineTime></OnlineTime>
      <ForeignAcIpv4></ForeignAcIpv4>
      <ForeignAcIpv6></ForeignAcIpv6>
    </RoamOutStaInfo>
  </RoamOutStation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RoamOutStation
Table type	Multi-instance table
Row name	RoamOutStaInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
BssID	BSS ID		MAC address	N/A
VlanID	VLAN-ID		Unsigned integer 1 to 4094	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
HomeAcIpv4	Foreign AC Ipv4		String	N/A
ForeignAcIpv6	Foreign AC Ipv6		String	N/A

WLANClient/StationRoamTrack

This table contains station roam track information.

XML structure

```
<WLANClient>
  <StationRoamTrack>
    <RoamTrack>
      <MacAddress></MacAddress>
      <TrackCnt></TrackCnt>
      <BssId></BssId>
      <OnlineTime></OnlineTime>
      <AcIpv4Addr></AcIpv4Addr>
      <AcIpv6Addr></AcIpv6Addr>
    </RoamTrack>
  </StationRoamTrack>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	StationRoamTrack
Table type	Multi-instance table
Row name	RoamTrack
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MacAddress	MacAddress of station	Index	MAC address	N/A
TrackCnt	Track count	Index	Unsigned integer	N/A
BssId	BSS ID		MAC address	N/A
OnlineTime	Online time in seconds		Unsigned integer	N/A
AcIpv4Addr	Ipv4 address of AC		String	N/A
AcIpv6Addr	Ipv6 address of AC		String	N/A

WLANClient/MobilityPeerGroups

This table contains mobility peer group information.

XML structure

```
<WLANClient>
  <MobilityPeerGroups>
    <MobilityPeerGroup>
      <Name></Name>
      <TunnelType></TunnelType>
      <Enable></Enable>
    </MobilityPeerGroup>
  </MobilityPeerGroups>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	MobilityPeerGroups
Table type	Multi-instance table
Row name	MobilityPeerGroup
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
Name	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
TunnelType	Tunnel IP address type.		Enumeration. 2 : IPv4. 10 : IPv6
Enable	Status of mobility peer group.		Boolean. True or 1 : enabled. False or 0 : disabled.

WLANClient/PeerGroupIPv4Members

This table contains mobility peer group IPv4 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv4Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv4Address></MemberIpv4Address>
    </Member>
  </PeerGroupIPv4Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeerGroupIPv4Members
Table type	Multi-instance table
Row name	Member
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv4 Address	IPv4 address of member.	Index	Ipv4Address.

WLANClient/PeerGroupIPv6Members

This table contains mobility peer group IPv6 member information.

XML structure

```
<WLANClient>
  <PeerGroupIPv6Members>
    <Member>
      <GroupName></GroupName>
      <MemberIpv6Address></MemberIpv6Address>
    </Member>
  </PeerGroupIPv6Members>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	PeegGroupIPv6Members
Table type	Multi-instance table
Row name	Member

Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
GroupName	Mobility peer group name	Index	String. Length is 1 to 15 characters. Case sensitive.
MemberIpv6 Address	IPv6 address of member.	Index	Ipv6Address.

WLANClient/Layer2Authentication

This table contains WLAN access security's authenticating configurations in service template.

XML structure

```

<WLANClient>
  <Layer2Authentication>
    <Authentication>
      <ServiceTemplateName></ServiceTemplateName>
      <AuthenticationMode></AuthenticationMode>
      <IntrusionProtectionEnable></IntrusionProtectionEnable>
      <IntrusionProtectionOperation></IntrusionProtectionOperation>
      <TemporaryServiceStopTimer></TemporaryServiceStopTimer>
      <TemporaryBlockTimer></TemporaryBlockTimer>
      <IgnoreAuthorization></IgnoreAuthorization>
      <AuthorizationFailOffline></AuthorizationFailOffline>
      <AccountingFailOffline></AccountingFailOffline>
      <Dot1xHandshakeEnable></Dot1xHandshakeEnable>
      <Dot1xSecurityHandshakeEnable></Dot1xSecurityHandshakeEnable>
      <Dot1xReauthenticationEnable></Dot1xReauthenticationEnable>
      <Dot1xMandatoryDomain></Dot1xMandatoryDomain>
      <Dot1xMaxUserCount></Dot1xMaxUserCount>
      <MACAuthenticationDomain></MACAuthenticationDomain>
      <MACAuthenticationMaxUserCount></MACAuthenticationMaxUserCount>
    </Authentication>
  </Layer2Authentication>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	Layer2Authentication
Table type	Multi-instance table
Row name	Authentication
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServiceTemplateName	Service template name.	Index	String, letter, number or '-', '[,]', '/', '-'. The length is 1 to 63.	
AuthenticationMode	Authentication mode of the service template	N/A	Enumeration: 0 : bypass. 1 : mac authentication 2 : mac then dot1x authentication 3 : dot1x authentication 4 : dot1x then mac authentication 5 : oui then dot1x	Default mode is bypass
IntrusionProtectionEnable	Enable Intrusion Protection of the Service Template	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
IntrusionProtectionOperation	Operation mode when intrusion detected	N/A	Enumeration: 0 : temporary block mac. 1 : temporary stop the service 2 : stop service	Column name
TemporaryServiceStopTimer	Period value of temporarily stop service	N/A	Unsigned integer Value range: 10 to 300.	Default value is 20 s.
TemporaryBlockTimer	Period value of temporarily block user mac	N/A	Unsigned integer Value range: 60 to 300.	Default value is 180 s.
IgnoreAuthorization	Ignore all authorization information set by server.	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
AuthorizationFailOffline	Users are offline if the	N/A	Boolean: True or 1 : enabled.	Default status is disabled

Column name	Column description	Column type	Data type and restrictions	Remarks
	authorizing failed.		False or 0 : disabled.	
AccountingFailOffline	Users are offline if the accounting request failed.	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
Dot1xHandshakeEnable	Enable handshake feature of dot1x	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
Dot1xSecurityHandshakeEnable	Enable secure handshake feature of dot1x	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled, and handshake feature should be enabled first.
Dot1xReauthenticationEnable	Enable re-authentication feature of dot1x	N/A	Boolean: True or 1 : enabled. False or 0 : disabled.	Default status is disabled
Dot1xMandatoryDomain	Mandatory domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	No default value
Dot1xMaxUserCount	Max dot1x user numbers for a bss bound to this service template	N/A	Unsigned integer Value range: 1 to 4096.	Default value is 4096.
MACAuthenticationDomain	Domain of users for the service template	N/A	String, case-insensitive. Length: 1 to 255 characters	
MACAuthenticationMaxUserCount	Max MAC authentication user numbers for a bss bound to this service template	N/A	Unsigned integer Value range: 1 to 4096.	

WLANClient/StationLayer2Authentication

This table contains wlan authenticated station's connection information.

XML structure

```

<WLANClient>
  <StationLayer2Authentication>
    <Information>
      <MACAddress></MACAddress>

```

```

    <AuthenDomain></AuthenDomain>
    <AuthenMode></AuthenMode>
    <AuthenMethod></AuthenMethod>
    <AuthorACLIndex></AuthorACLIndex>
    <AuthorUserProfile></AuthorUserProfile>
  </Information>
</StationLayer2Authentication>
</WLANClient>

```

Table description

Item	Description
Feature name	WLAS
Table name	StationLayer2Authentication
Table type	Multi-instance table
Row name	Information
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
MACAddress	Station MAC address	Index	MAC address
AuthenDomain	Domain of the user.	N/A	String, case-insensitive. Length: 1 to 255 characters.
AuthenMode	Authentication Mode.	N/A	Enumeration: 0 : BYPASS. 1 : MAC authentication. 2 : Dot1X. 3 : OUI.
AuthenMethod	Authentication Method of Dot1X user.	N/A	Enumeration: 1 : Chap. 2 : PAP. 3 : EAP
AuthorACLIndex	Authorization ACL group index allocated by the server.	N/A	Unsigned integer.
AuthorUserProfile	Authorization User Profile name allocated by the server.	N/A	String Length: 1 to 31 characters.

WLANClient

WLANClient/APs

This table contains AP configuration information.

XML structure

```
<WLANClient>
  <APs>
    <AP>
      <Name></Name>
      <IdleTime></IdleTime>
      <KeepAliveTime></KeepAliveTime>
      <BandNaviStatus></BandNaviStatus>
    </AP>
  </APs>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	APs
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
IdleTime	Station Idle time	N/A	Unsigned integer. Value range: 60s to 86400s.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAliveTime	Keeping alive time of station	N/A	Unsigned integer. Value range: 3s to 1800s.	N/A
BandNaviStatus	Band navigation status	N/A	Enumeration. 0—disabled 1—enabled 2—inherit	Effective only when global BandNaviStatus is enabled.

WLANClient/APGroup

This table contains AP group configuration information.

XML structure

```

<WLANClient>
  <APGroup>
    <Group>
      <Name></Name>
      <BandNaviStatus></BandNaviStatus>
    </Group>
  </APGroup>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	APGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	AP group name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
BandNaviStatus	Band navigation status	N/A	Boolean. - false—disabled. - true—enabled.	Effective only when global BandNaviStatus is enabled.

WLANClient/BandNavigation

This table contains band navigation information.

XML structure

```
<WLANClient>
  <BandNavigation>
    <GlobalStatus></GlobalStatus>
    <AgingTime></AgingTime>
    <DenialCnt></DenialCnt>
    <Session></Session>
    <Gap></Gap>
    <Threshold></Threshold>
  </BandNavigation>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	BandNavigation
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
GlobalStatus	Global status of band navigation	N/A	Boolean. - false—disabled. - true—enabled.
AgingTime	Client information aging time	N/A	Unsigned integer. Unit is second. Value range: 10 to 600.
DenialCnt	Maximum number of denials for 5 GHz association requests	N/A	Unsigned integer. Value range: 1 to 10.
Session	Client number threshold for the 5 GHz radio	N/A	Unsigned integer. Value range: 2 to 120.
Gap	Threshold for the session gap between the current 5 GHz radio and the radio that has the fewest clients	N/A	Unsigned integer. Value range: 1 to 8.
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100.

WLANClient/LoadBalance

This table contains load balancing information.

XML structure

```
<WLANClient>
  <LoadBalance>
    <Status></Status>
    <Mode></Mode>
    <Bandwidth></Bandwidth>
    <BandwidthGap></BandwidthGap>
    <Session></Session>
    <SessionGap></SessionGap>
    <Traffic></Traffic>
    <TrafficGap></TrafficGap>
    <DenialNum></DenialNum>
    <Threshold></Threshold>
  </LoadBalance>
</WLANClient>
```


Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalance
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WLAN load balancing status	N/A	Boolean. - false—disabled. - true—enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration. 1—session-mode. 2—traffic-mode. 3—bandwidth-mode.	N/A
Session	Session threshold in number of clients	N/A	Unsigned integer. Value range:1 to 120.	This column can be configured only when the Mode is session-mode (1).
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range:1 to 8.	This column cannot be configured if the Session is not configured.
Bandwidth	Bandwidth threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 500.	This column can be configured only when the Mode is bandwidth-mode (3).
Bandwidth Gap	Bandwidth gap threshold	N/A	Unsigned integer. Unit is Mbps. Value range:1 to 200.	This column cannot be configured if the Bandwidth is not configured.
Traffic	Traffic threshold	N/A	Unsigned integer. Unit is percent. Value range:1 to 80.	This column can be configured only when the Mode is traffic -mode (2).
TrafficGap	Traffic gap threshold	N/A	Unsigned integer. Unit is percent. Value range:10 to 40.	This column cannot be configured if the Traffic is not configured.
DenialNum	Maximum number of denials for association requests	N/A	Unsigned integer. Value range:2 to 10.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range:5 to 100.	N/A

WLANClient/LoadBalanceGroup

This table contains load balancing group information.

XML structure

```

<WLANClient>
  <LoadBalanceGroup>
    <Group>
      <GroupId></GroupId>
      <GroupDescription></GroupDescription>
    </Group>
  </LoadBalanceGroup>
</WLANClient>

```

Table description

Item	Description
Feature name	WLANClient
Table name	LoadBalanceGroup
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsignedinteger. Value range: 1 to 65535.
GroupDescription	Description for the load balancing group	N/A	String, case-sensitive. Length: 1 to 64 characters.

WLANClient/RadioInLBGroup

This table contains radio information of radios in the load balancing group.

XML structure

```
<WLANClient>
  <RadioInLBGroup>
    <Radio>
      <GroupId></GroupId>
      <ApName></ApName>
      <RadioId></RadioId>
    </Radio>
  </RadioInLBGroup>
</WLANClient>
```

Table description

Item	Description
Feature name	WLANClient
Table name	RadioInLBGroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupId	Load balancing group identifier	Index	Unsigned integer. Value range: 1 to 65535.
ApName	AP name	Index	String, lowercase. Length: 1 to 64 characters.
RadioId	Radio identifier	Index	Unsigned integer. Value range:1 to 31

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Resource Summary for WLANClient

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
ACStamgrCapacity	/api/v1/WLANCLIENT/ACStamgrCapacity	Y	N	N	N
BandNavigation	/api/v1/WLANCLIENT/ BandNavigation	Y	N	N	N
LoadBalance	/api/v1/WLANCLIENT/ LoadBalance	Y	N	N	N

WLANClient

ACStamgrCapacity

The table contains stamgr capacity information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
StamgrMaxBssid	Stamgr max bssid number	N/A	Unsigned integer.	N/A
StamgrMaxSta	Stamgr max station number	N/A	Unsigned integer.	N/A
StamgrMaxST	Stamgr max ST number	N/A	Unsigned integer.	N/A

Example

Example 1: Get data form resource ACStamgrCapacity.

JSON Request

GET /api/v1/WLANCLIENT/ ACStamgrCapacity

JSON Response

200 OK

```
{" ACStamgrCapacity ": [{  
  " StamgrMaxBssid": 32,  
  " StamgrMaxSta": 9080,
```

```
" StamgrMaxST": 16,
}}
```

MobilityAuthMethod

The table contains client authentication information in WLAN roaming.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Mobility group name	Index	String. Length: 1 to 15 characters.	N/A
AuthMode	Authentication mode	N/A	Enumeration: 1—MD5	N/A
EncryptType	Encryption type	N/A	Enumeration: 1—Simple 2—Cipher	N/A
EncryptKey	Encryption key	N/A	String. Length: 1 to 16 characters in simple text, 33 to 53 characters in cipher text.	N/A

Example

Example 1: Get data form resource MobilityAuthMethod.

JSON Request

```
GET /api/v1/WLANCLIENT/MobilityAuthMethod
```

JSON Response

200 OK

```
{" MobilityAuthMethod ": [{
  "GroupName": "mobilitygrp",
  "AuthMode": 1,
  "EncryptType": 1,
  "EncryptKey": "123456789"
}]}
```

Example 2: Add new Instance for resource MobilityAuthMethod.

JSON Request

POST /api/v1/WLANCLIENT/MobilityAuthMethod

```
{  
  "GroupName" : "mobilitygrp",  
  "AuthMode" : 1,  
  "EncryptType" : 1,  
  "EncryptKey" : "123456789"  
}
```

JSON Response

201 Created

Example 3: Change the value of EncryptKey for the assigned instance mobilitygrp.

JSON Request

PUT /api/v1/WLANCLIENT/MobilityAuthMethod?index=GroupName%3Dmobilitygrp

```
{  
  "GroupName" : "mobilitygrp",  
  "AuthMode" : 1,  
  "EncryptType" : 1,  
  "EncryptKey" : "987654321"  
}
```

JSON Response

204 No Content

Example 4: Delete the assigned instance from resource MobilityAuthMethod.

JSON Request

DELETE /api/v1/WLANCLIENT/MobilityAuthMethod?index=GroupName%3Dmobilitygrp

JSON Response

204 No Content

BandNavigation

This table contains band navigation information.

Properties

Column name	Column description	Column type	Data type and restrictions
GlobalStatus	Global status of band navigation	N/A	Boolean. false—Disabled. true—Enabled.
AgingTime	Client information aging time	N/A	Unsigned integer. Unit is second. Value range: 10 to 600.
DenialCnt	Maximum number of denials for 5 GHz association requests	N/A	Unsigned integer. Value range: 1 to 10.
Session	Client number threshold for the 5 GHz radio	N/A	Unsigned integer. Value range: 2 to 120.
Gap	Threshold for the session gap between the current 5 GHz radio and the radio that has the fewest clients	N/A	Unsigned integer. Value range: 1 to 8.
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100.

Example

Example 1: Get data from resource BandNavigation.

JSON Request

GET /api/v1/WLANCLIENT/BandNavigation

JSON Response

200 OK

```
{" BandNavigation ": [{  
  " GlobalStatus": true,  
  " AgingTime": 180,  
  " DenialCnt": 1,  
  " Session": 10,  
  " Gap": 0,  
  " Threshold": 15  
}]}
```


LoadBalance

This table contains load balancing information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	WLAN load balancing status	N/A	Boolean. false—Disabled. true—Enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration. 1—Session mode. 2—Traffic mode. 3—Bandwidth mode.	N/A
Session	Session threshold in the number of clients	N/A	Unsigned integer. Value range: 1 to 120.	This column can be configured only when the load balancing mode is session-mode (1).
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range: 1 to 8.	This column cannot be configured if the session threshold is not configured.
Bandwidth	Bandwidth threshold	N/A	Unsigned integer. Unit is Mbps. Value range: 1 to 500.	This column can be configured only when the load balancing mode is bandwidth-mode (3).
Bandwidth Gap	Bandwidth gap threshold	N/A	Unsigned integer. Unit is Mbps. Value range: 1 to 200.	This column cannot be configured if the bandwidth threshold is not configured.
Traffic	Traffic threshold	N/A	Unsigned integer. Unit is percent. Value range: 1 to 80.	This column can be configured only when the load balancing mode is traffic -mode (2).
TrafficGap	Traffic gap threshold	N/A	Unsigned integer. Unit is percent. Value range: 10 to 40.	This column cannot be configured if the traffic threshold is not configured.
DenialNum	Maximum number of denials for association requests	N/A	Unsigned integer. Value range: 2 to 10.	N/A
Threshold	RSSI threshold	N/A	Unsigned integer. Unit is dB. Value range: 5 to 100.	N/A

Example

Example 1: Get data from resource LoadBalance.

JSON Request

GET /api/v1/WLANCLIENT/LoadBalance

JSON Response

200 OK

```
{" LoadBalance ": [{  
    "Status": false,  
    "Mode": 1,  
    "Session": 20,  
    "SessionGap": 4,  
    "Bandwidth": 40,  
    "BandwidthGap": 20,  
    "Traffic": 30,  
    "TrafficGap": 20,  
    "DenialNum": 10,  
    "Threshold": 25  
}]}
```

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XML structure	3
Table description	3
Columns	4

WLOC

WLOC/ModuleRestore

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleRestore>
    <Module>
      <APName></APName>
      <ModuleID></ModuleID>
    </Module>
  </ModuleRestore>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleRestore
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A

WLOC/ModuleReset

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleReset>
```

```

<Module>
  <APName></APName>
  <ModuleID></ModuleID>
</Module>
</ModuleReset>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleReset
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A

WLOC/ModuleManualUpdate

This table contains Module of AP related parameters information .

XML structure

```

<WLOC>
  <ModuleManualUpdate>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <FilePath></FilePath>
    </Module>
  </ModuleManualUpdate>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleManualUpDate
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
FilePath	FilePath	Column	String, case-insensitive. Length: 1 to 512 characters	N/A

WLOC/ ModuleManualUpDateOfApGroup

This table contains Module of AP related parameters information .

XML structure

```
<WLOC>
  <ModuleManualUpDateOfApGroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <FilePath></FilePath>
    </Module>
  </ModuleManualUpDateOfApGroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleManualUpDateOfApGroup
Table type	Multi-instance table

Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ApModelName	ModelName	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
FilePath	FilePath	Column	String, case-insensitive. Length: 1 to 512 characters	N/A

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XML structure	14
Table description	15
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WLOC/FingerPrintOfApgroup	16
XML structure	16
Table description	17
Columns	17
WLOC/CommonConfOfApgroup	18
XML structure	18
Table description	18
Columns	19
WLOC/AeroScoutOfGlobal	20
XML structure	20
Table description	20
Columns	20
WLOC/BLEOfGlobal	21
XML structure	21
Table description	22
Columns	22
WLOC/CUPIDOfGlobal	24
XML structure	24
Table description	24
Columns	24
WLOC/FingerPrintOfGlobal	25
XML structure	25
Table description	26
Columns	26

WLOC/CommonConfOfGlobal	27
XML structure	27
Table description	27
Columns	28
WLOC/RadioConf	29
XML structure	29
Table description	29
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WLOC/RadioConfOfApgroup	30
XML structure	30
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WLOC/ModuleConf	31
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Columns	38
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XML structure	38
Table description	38
Columns	39

WLOC

WLOC/AeroScout

This table contains AeroScout of AP protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScout>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </AP>
  </AeroScout>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScout
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the	N/A	Enumeration: 1—enable	N/A

	AeroScout protocol		2—disable	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 1—static 2—dynamic	N/A
EngineAddress	Specify a locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify a locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: 1—absolute 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLE

This table contains BLE of AP protocol related parameters information.

XML structure

```

<WLOC>
  <BLE>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
    </AP>
  </BLE>
</WLOC>

```

```

<ReportStatus></ReportStatus>
<ReportInterval></ReportInterval>
<RssiThresholdStatus></RssiThresholdStatus>
<RssiThreshold></RssiThreshold>
<VendorPort></VendorPort>
<CmdPasswdSimple></CmdPasswdSimple>
<CmdPasswdCipher></CmdPasswdCipher>
<RealTimeReportStatus></RealTimeReportStatus>
<RealTimeReportPrefix></RealTimeReportPrefix>
<RealTimeReportInterval></RealTimeReportInterval>
<RealTimeReportEngineAddress></RealTimeReportEngineAddress>
<RealTimeReportEnginePort></RealTimeReportEnginePort>
<ReportMode></ReportMode>
<ReportFormat></ReportFormat>
</AP>
</BLE>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLE
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 1—enable 2—disable	N/A
AgingTime	Specify a neighbor aging time for BLE location	N/A	Unsigned integer Value range:60 to 3600.	N/A
EngineAddress	Specify the locating server IP address to which the AP sends packets, this column must	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

	configure with EnginePort			
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Configure Rssi-Threshold status	N/A	Enumeration: • 1—enable • 2—dsable	N/A
RssiThreshold	Specify the Rssi-Threshold value	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswd Simple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswd Cipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of real-time wireless locating	N/A	Enumeration: • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example:1.1.1.1.
RealTimeReportEnginePort	Specify the locating server	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.

	port to which the AP sends packets, this column must configure with EngineAddress			
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/CUPID

This table contains CUPID of AP protocol related parameters information.

XML structure

```

<WLOC>
  <CUPID>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </AP>
  </CUPID>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CUPID
Table type	Multi-instance table
Row name	AP
Restrictions	None

Support for row creation and deletion	No
---------------------------------------	----

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: 1—enable 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
UnassoMeasStatus	Unassociated Measurement report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general 2—lightweight	N/A

WLOC/FingerPrint

This table contains FingerPrint of AP protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrint>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus></RawFrameStatus>
      <MuReportStatus></MuReportStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </AP>
  </FingerPrint>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrint
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	N/A	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address, this	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

	column must configure with EnginePort			
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: • 1—enable • 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConf

This table contains CommonConf of AP protocol related parameters information.

XML structure

```

<WLOC>
  <CommonConf>
    <AP>
      <ApName></ApName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>

```

```

    <RssiStatus></RssiStatus>
    <RssiThreshold></RssiThreshold>
    <IgnoreApFrameStatus></IgnoreApFrameStatus>
    <KeepAliveStatus></KeepAliveStatus>
  </AP>
</CommonConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConf
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRateLimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout,	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must

	this column must configure with DilutionFactor			set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitCir	Configure the committed information rate, this column must configure with RateLimitCbs	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RateLimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Specify the Rssi-Threshold value	N/A	Enumeration: 1—enable 2—disable	N/A
RssiThreshold	Specify the Rssi-Threshold value	N/A	Unsigned integer. Value range: 5 to 100.	N/A
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: 1—enable 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/AeroScoutOfApgroup

This table contains AeroScout of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <AeroScoutOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
    </APGroup>
  </AeroScoutOfApgroup>
</WLOC>

```

```

    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </APGroup>
</AeroScoutOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 1—enable 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

	of AP			
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 0—inherit • 1—absolute • 2—relative	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfApgroup

This table contains Ble of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <BLEOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
    </APGroup>
  </BLEOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC

Table name	BLEOfApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 60 to 3600.	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the status of client list report	N/A	Enumeration: 1—enable 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threshold value	N/A	Enumeration: 1—enable 2—disable	N/A
RssiThreshold	Specify the Rssi-Threshold value	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswd	Specify the	N/A	String.	N/A

Simple	simple Command password		Length: 12	
CmdPasswd Cipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the RSSI threshold status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A

WLOC/CUPIDOfApGroup

This table contains CUPID of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <CUPIDOfApGroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
    </APGroup>
  </CUPIDOfApGroup>
</WLOC>

```

```

<VendorPort></VendorPort>
<ReportStatus></ReportStatus>
<ReportInterval></ReportInterval>
<UnassociateReportStatus></UnassociateReportStatus>
<UnassoMeasStatus></UnassoMeasStatus>
<ReportMode></ReportMode>
<ReportFormat></ReportFormat>
<LocalCalculate></LocalCalculate>
</APGroup>
</CUPIDOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

ReportStatus	Specify the status of client list report	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
UnassoMeasurementStatus	Unassociated measurement report to the server	N/A	Enumeration: • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfApgroup

This table contains FingerPrint of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <FingerPrintOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus></RawFrameStatus>
      <MuReportStatus></MuReprotStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </APGroup>
  </FingerPrintOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration 1—enable 2—disable	N/A
MuReprotStatus	Specify the status of report MU information	N/A	Enumeration 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general	N/A

			• 2—lightweight • 3—cupid-hybrid	
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfApgroup

This table contains CommonConf of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <CommonConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </APGroup>
  </CommonConfOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRateLimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Otional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout, this column must configure with DilutionFactor	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RateLimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Configure Rssi-Threshold status	N/A	Enumeration: 1—enable 2—disable	N/A
RssiThreshold	Specify the Rssi-Threshold	N/A	Unsigned integer	N/A

d	value		Value range: 5 to 100.	
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/AeroScoutOfGlobal

This table contains AeroScout of Global protocol related parameters information.

XML structure

```

<WLOC>
  <AeroScoutOfGlobal>
    <Status></Status>
    <VersionID></VersionID>
    <EngineDetectionMode></EngineDetectionMode>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <TimeStamp></TimeStamp>
    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </AeroScoutOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the AeroScout	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A

	protocol			
VersionID	Specify the AeroScout version ID	N/A	Enumeration: • 2—V2(default) • 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: • 1—static • 2—dynamic(default)	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 1—absolute • 2—relative(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfGlobal

This table contains BLE of Global protocol related parameters information.

XML structure

```

<WLOC>
  <BLEOfGlobal>
    <Status></Status>
    <AgingTime></AgingTime>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <RssiThresholdStatus></RssiThresholdStatus>
    <RssiThreshold></RssiThreshold>
  
```

```

<VendorPort></VendorPort>
<CmdPasswdSimple></CmdPasswdSimple>
<CmdPasswdCipher></CmdPasswdCipher>
<RealTimeReportStatus></RealTimeReportStatus>
<RealTimeReportPrefix></RealTimeReportPrefix>
<RealTimeReportInterval></RealTimeReportInterval>
<RealTimeReportEngineAddress></RealTimeReportEngineAddress>
<RealTimeReportEnginePort></RealTimeReportEnginePort>
<ReportMode></ReportMode>
<ReportFormat></ReportFormat>
</BLEOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 60 to 3600. Default:180	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the	N/A	Enumeration:	N/A

	status of client list report		• 1—enable • 2—disable(default)	
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400. Default:900	N/A
RssiThresholdStatus	Configure Rssi-Threshold status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RssiThreshold	Specify the Rssi-Threshold value	N/A	Unsigned integer. Value range: 5 to 255. Default:5	N/A
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of real-time wireless locating	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18 (even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A

ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight	N/A
--------------	--------------	-----	---	-----

WLOC/CUPIDOfGlobal

This table contains CUPID of Global protocol related parameters information.

XML structure

```

<WLOC>
  <CUPIDOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <UnassociateReportStatus></UnassociateReportStatus>
    <UnassoMeasStatus></UnassoMeasStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <LocalCalculate></LocalCalculate>
  </CUPIDOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
EngineAddress	Specify the locating server IP	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set

	address, this column must configure with EnginePort			together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ReportInterval	Specify the interval for sending client list	N/A	Unsigned integer. Value range: 1 to 10. Default:1	N/A
UnassociateReportStatus	Specify the status of Unassociated measurement	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
UnassoMeasStatus	Specify the status of Unassociated measurement	N/A	Enumeration: • 1—enable(default) • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/FingerPrintOfGlobal

This table contains FingerPrint of Global protocol related parameters information.

XML structure

```

<WLOC>
  <FingerPrintOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
  </FingerPrintOfGlobal>
</WLOC>

```

```

<VendorPort></VendorPort>
<RawFrameStatus></RawFrameStatus>
<MuReportStatus></MuReportStatus>
<ReportMode></ReportMode>
<ReportFormat></ReportFormat>
<MulticastAddress></MulticastAddress>
</FingerPrintOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A.
EngineAddress	Specify the locating server port to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: 1—enable 2—disable(default)	N/A

MuReprotStat us	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddr ess	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfGlobal

This table contains CommonConf of location protocol related parameters information.

XML structure

```

<WLOC>
  <CommonConfOfGlobal>
    <ClientRateLimitStatus></ClientRateLimitStatus>
    <ClientRateLimitCir></ClientRateLimitCir>
    <ClientRateLimitCbs></ClientRateLimitCbs>
    <DilutionStatus></DilutionStatus>
    <DilutionFactor></DilutionFactor>
    <DilutionTimeout></DilutionTimeout>
    <IgnoreBeaconStatus></IgnoreBeaconStatus>
    <RateLimitStatus></RateLimitStatus>
    <RateLimitCir></RateLimitCir>
    <RateLimitCbs></RateLimitCbs>
    <RssiStatus></RssiStatus>
    <RssiThreshold></RssiThreshold>
    <IgnoreApFrameStatus></IgnoreApFrameStatus>
    <KeepAliveStatus></KeepAliveStatus>
  </CommonConfOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfGlobal
Table type	Single-instance table
Row name	None

Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientRateLimitStatus	Limit the rate for clients to send locating packets to AP	N/A	Enumeration: 1—enable 2—disable(default)	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size, this column must configure with ClientRateLimitCir	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Dilution for locating packets	N/A	Enumeration: 1—enable 2—disable(default)	N/A
DilutionFactor	Configure the dilution factor, this column must configure with DilutionTimeout	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout, this column must configure with DilutionFactor	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size, this column must configure with RateLimitCir	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Configure rssi-threadhold status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RssiThreshold	Specify the	N/A	Unsigned integer.	N/A

d	rssi-threadhold value		Value range: 5 to 100. Default:5.	
IgnoreApFrameStatus	Ignore Ap frames	N/A	Enumeration: • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

WLOC/RadioConf

This table contains Radio related parameters information.

XML structure

```

<WLOC>
  <RadioConf>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConf
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer.	N/A

			Value range: 1 to 4.	
RadioStatus	Radio status	N/A	Enumeration: • 1—enable • 2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: • 2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: • 1—tag	N/A

WLOC/RadioConfOfApgroup

This table contains Radio of Apgroup related parameters information.

XML structure

```

<WLOC>
  <RadioConfOfApgroup>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>    </Radio>
    </RadioConfOfApgroup>
  </WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConfOfApgroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupNam e	Configure an AP group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A

ApModelName	Specify an AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ModeMu	Specify the type of Mu	N/A	Enumeration: • 0—disable(default) • 2—enable	N/A
ModeTag	Specify the type of Tag	N/A	Enumeration: • 0—disable(default) • 1—enable	N/A

WLOC/ModuleConf

This table contains Module of AP related parameters information.

XML structure

```

<WLOC>
  <ModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	Module status	N/A	Enumeration: 1—enable 2—disable	N/A
Type	Specify the Type of module	N/A	Enumeration: 0—NotConfig 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/ModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <ModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	AP group module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
Type	Specify the Type of module	N/A	Enumeration: 0—NotConfig(default) 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4. Default:1.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 1—enable 2—disable(default)	N/A

WLOC/BLEModuleConf

This table contains Module of AP related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConf>
    <Module>
```

```

    <ApName></ApName>
    <ModuleID></ModuleID>
    <AdvertisementStatus></AdvertisementStatus>
    <AdvertisementInterval></AdvertisementInterval>
    <AdvertisementUUID></AdvertisementUUID>
    <AdvertisementMajorID></AdvertisementMajorID>
    <AdvertisementMinorID></AdvertisementMinorID>
    <AdvertisementMeaPower></AdvertisementMeaPower>
  </Module>
</BLEModuleConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 1—enable 2—disable	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A

	advertisement reports			
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/BLEModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```

<WLOC>
  <BLEModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConfOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	AP group module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 1—enable 2—disable(default)	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000. Default:100.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default:1.	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default:1.	N/A
AdvertisementMeasurePower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/IOTConf

This table contains IOT server of AP related parameters information.

XML structure

```

<WLOC>
  <IOTConf>
    <AP>
      <ApName></ApName>
      <IoTAddress></IoTAddress>
    </AP>
  </IOTConf>
</WLOC>

```

```

        <IOTPort></IOTPort>
    </AP>
</IOTConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConf
Table type	Multi-instance table
Row name	AP
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

WLOC/IOTConfOfApgroup

This table contains IOT server of AP group related parameters information.

XML structure

```

<WLOC>
  <IOTConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <IOTAddress></IOTAddress>
      <IOTPort></IOTPort>
    </APGroup>
  </IOTConfOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

WLOC/IOTConfOfGlobal

This table contains IOT server of global related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfGlobal>
    <IOTAddress></IOTAddress>
    <IOTPort></IOTPort>
  </IOTConfOfGlobal>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfGlobal

Table type	Single-instance table
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTAddress	IP Address of IOTserver, this column must configure with IOTPort	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server, this column must configure with IOTAddress	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

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XML structure	40
Table description	40
Columns	40

WLOC

WLOC/AeroScout

This table contains AeroScout of AP protocol related parameters information.

XML structure

```
<WLOC>
  <AeroScout>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <VersionID></VersionID>
      <EngineDetectionMode></EngineDetectionMode>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <TimeStamp></TimeStamp>
      <ReportMode></ReportMode>
      <MulticastAddress></MulticastAddress>
    </AP>
  </AeroScout>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScout
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 0—inherit 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—disable	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 0—inherit 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 0—inherit 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: 0—inherit 1—absolute 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLE

This table contains BLE of AP protocol related parameters information.

XML structure

```

<WLOC>
  <BLE>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>

```

```

    <EnginePort></EnginePort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <RssiThresholdStatus></RssiThresholdStatus>
    <RssiThreshold></RssiThreshold>
    <VendorPort></VendorPort>
    <CmdPasswdSimple></CmdPasswdSimple>
    <CmdPasswdCipher></CmdPasswdCipher>
    <RealTimeReportStatus></RealTimeReportStatus>
    <RealTimeReportPrefix></RealTimeReportPrefix>
    <RealTimeReportInterval></RealTimeReportInterval>
    <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
    <RealTimeReportEnginePort></RealTimeReportEnginePort>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
  </AP>
</BLE>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLE
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range:0 or 60 to 3600.	Zero means inherited.
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.

Column name	Column description	Column type	Data type and restrictions	Remarks
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RssiThreshold	Specify the RSSI threshold value	N/A	Unsigned integer. Value range: 0 or 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswd Simple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswd Cipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
RealTimeReportEnginePort	Specify the locating server port to which the	N/A	Unsigned integer. Value range: .0 to 65535.	EngineAddress and EnginePort must set together.

Column name	Column description	Column type	Data type and restrictions	Remarks
	AP sends packets, this column must configure with EngineAddress			Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight	N/A

WLOC/CUPID

This table contains CUPID of AP protocol related parameters information.

XML structure

```

<WLOC>
  <CUPID>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </AP>
  </CUPID>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CUPID
Table type	Multi-instance table

Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
ReportStatus	Specify the status client list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 10.	Zero means inherited.
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalCalculate	Participate in local calculating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

WLOC/FingerPrint

This table contains FingerPrint of AP protocol related parameters information.

XML structure

```

<WLOC>
  <FingerPrint>
    <AP>
      <ApName></ApName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <RawFrameStatus><RawFrameStatus>
      <MuReportStatus></MuReportStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <MulticastAddress></MulticastAddress>
    </AP>
  </FingerPrint>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrint
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. If it is 0, it means inherited
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConf

This table contains CommonConf of AP protocol related parameters information.

XML structure

```
<WLOC>
  <CommonConf>
```

```

<AP>
  <ApName></ApName>
  <ClientRateLimitStatus></ClientRateLimitStatus>
  <ClientRateLimitCir></ClientRateLimitCir>
  <ClientRateLimitCbs></ClientRateLimitCbs>
  <DilutionStatus></DilutionStatus>
  <DilutionFactor></DilutionFactor>
  <DilutionTimeout></DilutionTimeout>
  <IgnoreBeaconStatus></IgnoreBeaconStatus>
  <RateLimitStatus></RateLimitStatus>
  <RateLimitCir></RateLimitCir>
  <RateLimitCbs></RateLimitCbs>
  <RssiStatus></RssiStatus>
  <RssiThreshold></RssiThreshold>
  <IgnoreApFrameStatus></IgnoreApFrameStatus>
  <KeepAliveStatus></KeepAliveStatus>
</AP>
</CommonConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConf
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	dilution for locating packets		0—inherit 1—enable 2—disable	
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/AeroScoutOfApgroup

This table contains AeroScout of APGroup protocol related parameters information.

XML structure

```
<WLOC>
```

```

<AeroScoutOfApGroup>
  <APGroup>
    <ApGroupName></ApGroupName>
    <Status></Status>
    <VersionID></VersionID>
    <EngineDetectionMode></EngineDetectionMode>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <TimeStamp></TimeStamp>
    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </APGroup>
</AeroScoutOfApGroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	AeroScoutOfApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 0—inherit 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 0—inherit 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
				Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: 0—inherit 1—absolute 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfApGroup

This table contains Ble of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <BLEOfApGroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <AgingTime></AgingTime>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <RssiThresholdStatus></RssiThresholdStatus>
      <RssiThreshold></RssiThreshold>
      <VendorPort></VendorPort>
      <CmdPasswdSimple></CmdPasswdSimple>
      <CmdPasswdCipher></CmdPasswdCipher>
      <RealTimeReportStatus></RealTimeReportStatus>
      <RealTimeReportPrefix></RealTimeReportPrefix>
      <RealTimeReportInterval></RealTimeReportInterval>
      <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
      <RealTimeReportEnginePort></RealTimeReportEnginePort>
    </APGroup>
  </BLEOfApGroup>
</WLOC>

```

```

    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
  </APGroup>
</BLEOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range: 0 or 60 to 3600.	Zero means inherited.
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 86400.	Zero means inherited.
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherit 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—disable	
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 0 or 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswd Simple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswd Cipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight	N/A

WLOC/CUPIDOfApgroup

This table contains CUPID of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <CUPIDOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <Status></Status>
      <EngineAddress></EngineAddress>
      <EnginePort></EnginePort>
      <VendorPort></VendorPort>
      <ReportStatus></ReportStatus>
      <ReportInterval></ReportInterval>
      <UnassociateReportStatus></UnassociateReportStatus>
      <UnassoMeasStatus></UnassoMeasStatus>
      <ReportMode></ReportMode>
      <ReportFormat></ReportFormat>
      <LocalCalculate></LocalCalculate>
    </APGroup>
  </CUPIDOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set

Column name	Column description	Column type	Data type and restrictions	Remarks
ss	locating server IP address			together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
ReportStatus	Specify the status of client list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 10.	Zero means inherited.
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

WLOC/FingerPrintOfApgroup

This table contains FingerPrint of APGroup protocol related parameters information.

XML structure

```
<WLOC>
  <FingerPrintOfApgroup>
```

```

<APGroup>
  <ApGroupName></ApGroupName>
  <Status></Status>
  <EngineAddress></EngineAddress>
  <EnginePort></EnginePort>
  <VendorPort></VendorPort>
  <RawFrameStatus><RawFrameStatus>
  <MuReportStatus></MuReportStatus>
  <ReportMode></ReportMode>
  <ReportFormat></ReportFormat>
  <MulticastAddress></MulticastAddress>
</APGroup>
</FingerPrintOfApGroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfApGroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.

Column name	Column description	Column type	Data type and restrictions	Remarks
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfApgroup

This table contains CommonConf of APGroup protocol related parameters information.

XML structure

```

<WLOC>
  <CommonConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <ClientRateLimitStatus></ClientRateLimitStatus>
      <ClientRateLimitCir></ClientRateLimitCir>
      <ClientRateLimitCbs></ClientRateLimitCbs>
      <DilutionStatus></DilutionStatus>
      <DilutionFactor></DilutionFactor>
      <DilutionTimeout></DilutionTimeout>
      <IgnoreBeaconStatus></IgnoreBeaconStatus>
      <RateLimitStatus></RateLimitStatus>
      <RateLimitCir></RateLimitCir>
      <RateLimitCbs></RateLimitCbs>
      <RssiStatus></RssiStatus>
      <RssiThreshold></RssiThreshold>
      <IgnoreApFrameStatus></IgnoreApFrameStatus>
      <KeepAliveStatus></KeepAliveStatus>
    </APGroup>
  </CommonConfOfApgroup>

```

</WLOC>

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherited 1—enable 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/AeroScoutOfGlobal

This table contains AeroScout of Global protocol related parameters information.

XML structure

```

<WLOC>
  <AeroScoutOfGlobal>
    <Status></Status>
    <VersionID></VersionID>
    <EngineDetectionMode></EngineDetectionMode>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <TimeStamp></TimeStamp>
    <ReportMode></ReportMode>
    <MulticastAddress></MulticastAddress>
  </AeroScoutOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC

Table name	AeroScoutOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 1—enable 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: 1—absolute 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
MulticastAddress	MACAddress of tag multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/BLEOfGlobal

This table contains BLE of Global protocol related parameters information.

XML structure

<WLOC>

```

<BLEOfGlobal>
  <Status></Status>
  <AgingTime></AgingTime>
  <EngineAddress></EngineAddress>
  <EnginePort></EnginePort>
  <ReportStatus></ReportStatus>
  <ReportInterval></ReportInterval>
  <RssiThresholdStatus></RssiThresholdStatus>
  <RssiThreshold></RssiThreshold>
  <VendorPort></VendorPort>
  <CmdPasswdSimple></CmdPasswdSimple>
  <CmdPasswdCipher></CmdPasswdCipher>
  <RealTimeReportStatus></RealTimeReportStatus>
  <RealTimeReportPrefix></RealTimeReportPrefix>
  <RealTimeReportInterval></RealTimeReportInterval>
  <RealTimeReportEngineAddress></RealTimeReportEngineAddress>
  <RealTimeReportEnginePort></RealTimeReportEnginePort>
  <ReportMode></ReportMode>
  <ReportFormat></ReportFormat>
</BLEOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer Value range: 60 to 3600.	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server	N/A	Unsigned integer.	EngineAddress and EnginePort must set

Column name	Column description	Column type	Data type and restrictions	Remarks
	port to which the AP sends packets		Value range: 1 to 65535.	together.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 1—enable 2—disable	N/A
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: 1—enable 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example:1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general 2—lightweight	N/A

WLOC/CUPIDOfGlobal

This table contains CUPID of Global protocol related parameters information.

XML structure

```

<WLOC>
  <CUPIDOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>
    <VendorPort></VendorPort>
    <ReportStatus></ReportStatus>
    <ReportInterval></ReportInterval>
    <UnassociateReportStatus></UnassociateReportStatus>
    <UnassoMeasStatus></UnassoMeasStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <LocalCalculate></LocalCalculate>
  </CUPIDOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CUPIDOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	through the Cupid protocol		1—enable 2—disable	
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
UnassoMeasurementStatus	Unassociated measurement report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/FingerPrintOfGlobal

This table contains FingerPrint of Global protocol related parameters information.

XML structure

```

<WLOC>
  <FingerPrintOfGlobal>
    <Status></Status>
    <EngineAddress></EngineAddress>
    <EnginePort></EnginePort>

```

```

    <VendorPort></VendorPort>
    <RawFrameStatus><RawFrameStatus>
    <MuReportStatus></MuReportStatus>
    <ReportMode></ReportMode>
    <ReportFormat></ReportFormat>
    <MulticastAddress></MulticastAddress>
  </FingerPrintOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	FingerPrintOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: 1—enable 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportFormat	Frame format	N/A	Enumeration: 1—general 2—lightweight 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

WLOC/CommonConfOfGlobal

This table contains CommonConf of Global protocol related parameters information.

XML structure

```

<WLOC>
  <CommonConfOfGlobal>
    <ClientRateLimitStatus></ClientRateLimitStatus>
    <ClientRateLimitCir></ClientRateLimitCir>
    <ClientRateLimitCbs></ClientRateLimitCbs>
    <DilutionStatus></DilutionStatus>
    <DilutionFactor></DilutionFactor>
    <DilutionTimeout></DilutionTimeout>
    <IgnoreBeaconStatus></IgnoreBeaconStatus>
    <RateLimitStatus></RateLimitStatus>
    <RateLimitCir></RateLimitCir>
    <RateLimitCbs></RateLimitCbs>
    <RssiStatus></RssiStatus>
    <RssiThreshold></RssiThreshold>
    <IgnoreApFrameStatus></IgnoreApFrameStatus>
    <KeepAliveStatus></KeepAliveStatus>
  </CommonConfOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	CommonConfOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 1—enable 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter
RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 1—enable 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 5 to 100.	N/A
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/RadioConf

This table contains Radio related parameters information.

XML structure

```
<WLOC>
  <RadioConf>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConf>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConf
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: 0—inherit 2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: 0—inherit 1—tag	N/A

WLOC/RadioConfOfApgroup

This table contains Radio of Apgroup related parameters information.

XML structure

```
<WLOC>
  <RadioConfOfApgroup>
    <Radio>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <RadioID></RadioID>
      <RadioStatus></RadioStatus>
      <ModeMu></ModeMu>
      <ModeTag></ModeTag>
    </Radio>
  </RadioConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	RadioConfOfApgroup
Table type	Multi-instance table
Row name	Radio
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Configure an AP group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ApModelName	Specify an AP model and enter AP model view	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: 1—enable 2—disable	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: 0—disable 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeMu	Locate all 802.11 clients	N/A	Enumeration: 0—disable 2—enable	N/A

WLOC/ModuleConf

This table contains Module of AP related parameters information.

XML structure

```

<WLOC>
  <ModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: 0—inherited 1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—disable	
Type	Specify a module type	N/A	Enumeration: 0—inherit 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:0 to 4.	If it is 0, it means inherited
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

WLOC/ModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```

<WLOC>
  <ModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <ModuleStatus></ModuleStatus>
      <Type></Type>
      <TxPower></TxPower>
      <FwUpgrade></FwUpgrade>
    </Module>
  </ModuleConfOfApgroup>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: 1—enable 2—disable	N/A
Type	Specify a module type	N/A	Enumeration: 0—NotConfig 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 1—enable 2—disable	N/A

WLOC/BLEModuleConf

This table contains Module of AP related parameters information.

XML structure

```

<WLOC>
  <BLEModuleConf>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConf
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
Advertisemen tStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
Advertisemen tInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 0 or 50 to 1000.	Interval value in centiseconds, in steps of 10
Advertisemen tUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
Advertisemen tMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. 4294967295	N/A
Advertisemen tMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. 4294967295	N/A
Advertisemen tMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/BLEModuleConfOfApgroup

This table contains Module of AP group related parameters information.

XML structure

```
<WLOC>
  <BLEModuleConfOfApgroup>
    <Module>
      <ApGroupName></ApGroupName>
      <ApModelName></ApModelName>
      <ModuleID></ModuleID>
      <AdvertisementStatus></AdvertisementStatus>
      <AdvertisementInterval></AdvertisementInterval>
      <AdvertisementUUID></AdvertisementUUID>
      <AdvertisementMajorID></AdvertisementMajorID>
      <AdvertisementMinorID></AdvertisementMinorID>
      <AdvertisementMeaPower></AdvertisementMeaPower>
    </Module>
  </BLEModuleConfOfApgroup>
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	BLEModuleConfOfApgroup
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 1—enable 2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

WLOC/ModuleInfo//暂时不做

This table contains Module status of AP related parameters information.

XML structure

```

<WLOC>
  <ModuleInfo>
    <Module>
      <ApName></ApName>
      <ModuleID></ModuleID>
      <ModuleAdminType></ModuleAdminType>
      <ModuleType></ModuleType>
      <ModuleChipType></ModuleChipType>
      <HWVersion></HWVersion>
      <SWVersion></SWVersion>
      <SequenceID></SequenceID>
      <ModuleStatus></ModuleStatus>
      <ModuleAdminStatus></ModuleAdminStatus>
      <RF1Status></RF1Status>
      <RF2Status></RF2Status>
      <RF3Status></RF3Status>
      <ZIGBEEStatus></ZIGBEEStatus>
    
```

```

    </Module>
  </ModuleInfo>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	ModuleInfo
Table type	Multi-instance table
Row name	Module
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleAdmin Type	Module administrate type	N/A	Enumeration: 0—NotConfig 1—BLE 2—IOT	N/A
ModuleType	Module physical Type	N/A	Enumeration: 0—N/A 1—H3C 2—IOT	N/A
ModuleChipType	Module Chip Type	N/A	Enumeration: 0—N/A 1—BLE 2—RFID 3—ZIGBEE	N/A
HWVersion	HardWare Version	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SWVersion	SoftWare Version	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
SequenceID	Sequence ID	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ModuleStatus	Module Status	N/A	Enumeration: 0—unavailable 1—norma 2—absent	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleAdmin Status	Module Admin Status	N/A	Enumeration: • 1—enable • 2—disable	N/A
RF1Status	RF1 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supported.
RF2Status	RF2 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supported.
RF3Status	RF3 Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supported.
ZIGBEEStatus	ZIGBEE Status	N/A	Enumeration: • 1—enable • 2—disable	Only IOT module supported.

WLOC/IOTConf

This table contains IOT server of AP related parameters information.

XML structure

```

<WLOC>
  <IOTConf>
    <AP>
      <ApName></ApName>
      <IoTAddress></IoTAddress>
      <IoTPort></IoTPort>
    </AP>
  </IOTConf>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConf
Table type	Multi-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

WLOC/IOTConfOfApgroup

This table contains IOT server of AP group related parameters information.

XML structure

```
<WLOC>
  <IOTConfOfApgroup>
    <APGroup>
      <ApGroupName></ApGroupName>
      <IOTAddress></IOTAddress>
      <IOTPort></IOTPort>
    </APGroup>
  </IOTConfOfApgroup >
</WLOC>
```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfApgroup
Table type	Multi-instance table
Row name	APGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

WLOC/IOTConfOfGlobal

This table contains IOT server of global related parameters information.

XML structure

```

<WLOC>
  <IOTConfOfGlobal>
    <IOTAddress></IOTAddress>
    <IOTPort></IOTPort>
  </IOTConfOfGlobal>
</WLOC>

```

Table description

Item	Description
Feature name	WLOC
Table name	IOTConfOfGlobal
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

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Resource Summary for WLOC

Resource(Table)	Base URL	HTTP Method			
		GET	POST	PUT	DELETE
AeroScout	/api/v1/WLOC/AeroScout	Y	N	Y	N
BLE	/api/v1/WLOC/BLE	Y	N	Y	N
CUPID	/api/v1/WLOC/CUPID	Y	N	Y	N
FingerPrint	/api/v1/WLOC/FingerPrint	Y	N	Y	N
CommonConf	/api/v1/WLOC/CommonConf	Y	N	Y	N
AeroScoutOfApgroup	/api/v1/WLOC/AeroScoutOfApgroup	Y	N	Y	N
BLEOfApgroup	/api/v1/WLAN/WLOC/BLEOfApgroup	Y	N	Y	N
CUPIDOfApgroup	/api/v1/WLOC/CUPIDOfApgroup	Y	N	Y	N
FingerPrintOfApgroup	/api/v1/WLOC/FingerPrintOfApgroup	Y	N	Y	N
CommonConfOfApgroup	/api/v1/WLOC/CommonConfOfApgroup	Y	N	Y	N
AeroScoutOfGlobal	/api/v1/WLOC/AeroScoutOfGlobal	Y	N	Y	N
BLEOfGlobal	/api/v1/WLOC/BLEOfGlobal	Y	N	Y	N
CUPIDOfGlobal	/api/v1/WLOC/CUPIDOfGlobal	Y	N	Y	N
FingerPrintOfGlobal	/api/v1/WLOC/FingerPrintOfGlobal	Y	N	Y	N
CommonConfOfGlobal	/api/v1/WLOC/CommonConfOfGlobal	Y	N	Y	N
RadioConf	/api/v1/WLOC/RadioConf	Y	N	Y	N
RadioConfOfApgroup	/api/v1/WLOC/RadioConfOfApgroup	Y	N	Y	N
ModuleConf	/api/v1/WLOC/ModuleConf	Y	N	Y	N
ModuleConfOfApgroup	/api/v1/WLOC/ModuleConfOfApgroup	Y	N	Y	N
BLEModuleConf	/api/v1/WLOC/BLEModuleConf	Y	N	Y	N
BLEModuleConfOfApgroup	/api/v1/WLOC/BLEModuleConfOfApgroup	Y	N	Y	N
IOTConf	/api/v1/WLOC/IOTConf	Y	N	Y	N
IOTConfOfApgroup	/api/v1/WLOC/IOTConfOfApgroup	Y	N	Y	N
IOTConfOfGlobal	/api/v1/WLOC/IOTConfOfGlobal	Y	N	Y	N

WLOC

WLOC/AeroScout

This table contains AeroScout of AP protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 0—inherit 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 0—inherit 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: 0—inherit 1—absolute 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A

MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.
------------------	-----------------------------	-----	---	--------------------------------

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/AeroScout

JSON Response

200 OK

```
{
  "AeroScout": [
    {
      "ApName": "ap1",
      "Status": 1,
      "VersionID": 2,
      "EngineDetectionMode": 1,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 1,
      "TimeStamp": 0,
      "ReportMode": 2,
      "MulticastAddress": "01-34-ED-66-89-23"
    },
    {
      "ApName": "ap2",
      "Status": 0,
      "VersionID": 0,
      "EngineDetectionMode": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "TimeStamp": 0,
      "ReportMode": 0,
      "MulticastAddress": "01-34-ED-66-89-23"
    }
  ]
}
```


Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/AeroScout?index=ApName%3Dap1

```
{
  "ApName": "ap1",
  "VendorPort": 3
}
```

JSON Response

204 No Content

WLOC/BLE

This table contains BLE of AP protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer. Value range:0 or 60 to 3600.	Zero means inherited.
EngineAddress	Specify the locating server IP address to which the AP sends packets	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client	N/A	Unsigned integer. Value range: 0 to 86400.	N/A

	list report			
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RssiThreshold	Specify the RSSI threshold value	N/A	Unsigned integer. Value range: 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: .0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/BLE

JSON Response

200 OK

```
{
  "BLE": [
    {
      "ApName": "ap1",
      "Status": 0,
      "AgingTime": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "RealTimeReportStatus": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "RssiThresholdStatus": 0,
      "RssiThreshold": 0,
      "VendorPort": 0,
      "CmdPasswdSimple": "aaaaaaaaaaaa",
      "CmdPasswdCipher": "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb",
      "RealTimeReportPrefix": "000000ff",
      "RealTimeReportInterval": "5",
      "RealTimeReportEngineAddress": "1.1.1.2",
      "RealTimeReportEnginePort": "1146",
      "ReportMode": "1",
      "ReportFormat": "1"
    },
    {
      "ApName": "ap2",
      "Status": 0,
      "AgingTime": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "RealTimeReportStatus": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "RssiThresholdStatus": 0,
      "RssiThreshold": 0,
      "VendorPort": 0,
      "CmdPasswdSimple": "aaaaaaaaaaaa",
      "CmdPasswdCipher": "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb",
      "RealTimeReportPrefix": "000000ff",
      "RealTimeReportInterval": "5",
      "RealTimeReportEngineAddress": "1.1.1.2",
      "RealTimeReportEnginePort": "1146",
      "ReportMode": "1",
      "ReportFormat": "1"
    }
  ]
}
```

```

    "ReportInterval": 0,
    "RssiThresholdStatus": 0,
    "RssiThreshold": 0,
    "VendorPort": 0,
    "CmdPasswdSimple": "aaaaaaaaaaaa",
    "CmdPasswdCipher": "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb",
    "RealTimeReportPrefix": "000000ff",
    "RealTimeReportInterval": "5",
    "RealTimeReportEngineAddress": "1.1.1.2",
    "RealTimeReportEnginePort": "1146",
    "ReportMode": "1",
    "ReportFormat": "1"
  }
}

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/BLE?index=ApName%3Dap1

```

{
  "ApName": "ap1",
  "VendorPort": 1145
}

```

JSON Response

204 No Content

WLOC/CUPID

This table contains CUPID of AP protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 0—inherit 1—enable	N/A

			2—disable	
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
ReportStatus	Specify the status client list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 10.	Zero means inherited.
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 0—inherit 1—general 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CUPID

JSON Response

200 OK

```
{
  "CUPID": [
    {
      "ApName": "ap1",
      "Status": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "UnassociateReportStatus": 0,
      "UnassoMeasStatus": 0,
      "ReportMode": 0,
      "ReportFormat": 0,
      "LocalCalculate": "1"
    },
    {
      "ApName": "ap2",
      "Status": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "UnassociateReportStatus": 0,
      "UnassoMeasStatus": 0,
      "ReportMode": 0,
      "ReportFormat": 0,
      "LocalCalculate": "1"
    }
  ]
}
```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CUPID?index=ApName%3Dap1

```
{
```

```

    "ApName": "ap1",
    "VendorPort": 777
}

```

JSON Response

204 No Content

WLOC/FingerPrint

This table contains FingerPrint of AP protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. If it is 0, it means inherited
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
RawFrameStatus	Specify the status of report raw frame information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 0—inherit 1—local 2—central	N/A

ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/FingerPrint

JSON Response

200 OK

```
{
  "ApName": "ap1"
  "Status": "1"
  "EngineAddress": "1.1.1.1"
  "EnginePort": "1144"
  "VendorPort": "1145"
  "RawFrameStatus": "1"
  "MuReportStatus": "2"
  "ReportMode": "1"
  "ReportFormat": "2"
  "MulticastAddress": "01-0c-cc-00-00-00"
}
{"FingerPrint": [
  {
    "ApName": "ap1",
    "Status": 0,
    "EngineAddress": "0.0.0.0",
    "EnginePort": 0,
    "VendorPort": 0,
    "RawFrameStatus": 0,
    "MuReportStatus": 0,
    "ReportMode": 0,
    "ReportFormat": 0,
```



```

        "MulticastAddress": "01-0c-cc-00-00-00"
    },
    {
        "ApName": "ap2",
        "Status": 0,
        "EngineAddress": "0.0.0.0",
        "EnginePort": 0,
        "VendorPort": 0,
        "RawFrameStatus": 0,
        "MuReportStatus": 0,
        "ReportMode": 0,
        "ReportFormat": 0,
        "MulticastAddress": "01-0c-cc-00-00-00"
    }
}
]]

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/FingerPrint?index=ApName%3Dap1

```

{
    "ApName": "ap1",
    "VendorPort": "1"
}

```

JSON Response

204 No Content

WLOC/CommonConf

This table contains CommonConf of AP protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send	N/A	Enumeration: • 0—inherit	N/A

	locating packets to the AP status		• 1—enable • 2—disable	
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CommonConf

JSON Response

200 OK

```
CommonConf": [  
  {  
    "ApName": "ap1",  
    "ClientRateLimitStatus": 1,  
    "ClientRateLimitCir": 100,  
    "ClientRateLimitCbs": 80,  
    "DilutionStatus": 1,  
    "DilutionFactor": 100,  
    "DilutionTimeout": 60,  
    "IgnoreBeaconStatus": 1,  
    "RateLimitStatus": 2,  
    "RateLimitCir": 8,  
    "RateLimitCbs": 500,  
    "RssiStatus": 1,  
    "RssiThreshold": 5,  
    "IgnoreApFrameStatus": 1,  
    "KeepAliveStatus": 1  
  },  
  {  
    "ApName": "ap2",  
    "ClientRateLimitStatus": 2,  
    "ClientRateLimitCir": 0,  
    "ClientRateLimitCbs": 0,  
    "DilutionStatus": 1,  
    "DilutionFactor": 0,  
    "DilutionTimeout": 0,  
    "IgnoreBeaconStatus": 1,  
    "RateLimitStatus": 2,  
    "RateLimitCir": 0,  
    "RateLimitCbs": 0,  
    "RssiStatus": 2,  
  }  
]
```

```

        "RssiThreshold": 0,
        "IgnoreApFrameStatus": 0,
        "KeepAliveStatus": 0
    }
}

```

Example 2: Change the value of ClientRateLimitStatus for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CommonConf?index=ApName%3Dap1

```

{
    "ApName": "ap1",
    "ClientRateLimitStatus": 2
}

```

JSON Response

204 No Content

WLOC/AeroScoutOfApgroup

This table contains AeroScout of APGroup protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 0—inherit 2—V2 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 0—inherit 1—static 2—dynamic	N/A
EngineAddress	Specify the locating server IP	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together.

	address			Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 0—inherit • 1—absolute • 2—relative	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/AeroScoutOfApgroup

JSON Response

200 OK

```
{
  "AeroScoutOfApgroup": [
    {
      "ApGroupName": "default-group",
      "Status": 0,
      "VersionID": 0,
      "EngineDetectionMode": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "TimeStamp": 0,
      "ReportMode": 0,
      "MulticastAddress": "00-00-00-00-00-00"
    },
    {

```

```

    "ApGroupName": "group1",
    "Status": 0,
    "VersionID": 0,
    "EngineDetectionMode": 0,
    "EngineAddress": "0.0.0.0",
    "EnginePort": 0,
    "VendorPort": 5,
    "TimeStamp": 0,
    "ReportMode": 0,
    "MulticastAddress": "00-00-00-00-00-00"
  }
}

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/AeroScoutOfAgroup?index=ApGroupName%3Dgroup1

```

{
  "ApGroupName": "group1",
  "VendorPort": 1
}

```

JSON Response

204 No Content

WLOC/BLEOfAgroup

This table contains Ble of APGroup protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
AgingTime	Specify a neighbour aging	N/A	Unsigned integer.	Zero means inherited.

	time for BLE location		Value range: 0 or 60 to 3600.	
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 86400.	Zero means inherited.
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 0 or 5 to 255.	Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
CmdPasswordSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswordCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.

	EnginePort			
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: .0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/BLEOfApgroup

JSON Response

200 OK

```
{
  "BLEOfApgroup": [
    {
      "ApGroupName": "default-group",
      "Status": 0,
      "AgingTime": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "RealTimeReportStatus": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "RssiThresholdStatus": 0,
      "RssiThreshold": 0,
      "VendorPort": 0,
      "CmdPasswdSimple": "",
      "CmdPasswdCipher": "",
      "RealTimeReportPrefix": "",
      "RealTimeReportInterval": "5",
    }
  ]
}
```



```

    "RealTimeReportEngineAddress": "1.1.1.2",
    "RealTimeReportEnginePort": "1146",
    "ReportMode": "1",
    "ReportFormat": "1"
  },
  {
    "ApGroupName": "group1",
    "Status": 0,
    "AgingTime": 0,
    "EngineAddress": "0.0.0.0",
    "EnginePort": 0,
    "RealTimeReportStatus": 0,
    "ReportStatus": 0,
    "ReportInterval": 0,
    "RssiThresholdStatus": 0,
    "RssiThreshold": 0,
    "VendorPort": 0,
    "CmdPasswdSimple": "",
    "CmdPasswdCipher": "",
    "RealTimeReportPrefix": "",
    "RealTimeReportInterval": "5",
    "RealTimeReportEngineAddress": "1.1.1.2",
    "RealTimeReportEnginePort": "1146",
    "ReportMode": "1",
    "ReportFormat": "1"
  }
]}

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/BLEOfApgroup?index=ApGroupName%3Dgroup1

```

{
  "ApGroupName": "group1",
  "VendorPort": 1
}

```

JSON Response

WLOC/CUPIDOfApgroup

This table contains CUPID of APGroup protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify the Vendor portnum of AP	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: 1—enable 2—disable	N/A
ReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: 1—enable 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general	N/A

			• 2—lightweight	
LocalCalculate	Participate in local calculating	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CUPIDOfApgroup

JSON Response

200 OK

```
{
  "CUPIDOfApgroup": [
    {
      "ApGroupName": "default-group",
      "Status": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "UnassociateReportStatus": 0,
      "UnassoMeasStatus": 0,
      "ReportMode": 0,
      "ReportFormat": 0
    },
    {
      "ApGroupName": "group1",
      "Status": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "ReportStatus": 0,
      "ReportInterval": 0,
      "UnassociateReportStatus": 0,
      "UnassoMeasStatus": 0,
      "ReportMode": 0,
      "ReportFormat": 0
    }
  ]
}
```

```

        "ReportFormat": 0
    }
}

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CUPIDOfApgroup?index=ApGroupName%3Dgroup1

```

{
    "ApGroupName": "group1",
    "VendorPort": 1
}

```

JSON Response

204 No Content

WLOC/FingerPrintOfApgroup

This table contains FingerPrint of APGroup protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1. Zero means inherited.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 0 to 65535.	EngineAddress and EnginePort must set together. Zero means inherited.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 0 to 65535.	Zero means inherited.
RawFrameSt	Specify the	N/A	Enumeration:	N/A

atus	status of report raw frame information		• 0—inherit • 1—enable • 2—disable	
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 0—inherit • 1—local • 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 0—inherit • 1—general • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

Example

Example 1: Get data form resource table.

JSON Request

GET /api/v1/WLOC/FingerPrintOfApgroup

JSON Response

200 OK

```
{
  "FingerPrintOfApgroup": [
    {
      "ApGroupName": "default-group",
      "Status": 0,
      "EngineAddress": "0.0.0.0",
      "EnginePort": 0,
      "VendorPort": 0,
      "RawFrameStatus": 0,
      "MuReportStatus": 0,
      "ReportMode": 0,
      "ReportFormat": 0,
      "MulticastAddress": "01-0c-cc-00-00-00"
    },
    {
      "ApGroupName": "group1",
```

```

    "Status": 0,
    "EngineAddress": "0.0.0.0",
    "EnginePort": 0,
    "VendorPort": 0,
    "RawFrameStatus": 0,
    "MuReportStatus": 0,
    "ReportMode": 0,
    "ReportFormat": 0,
    "MulticastAddress": "01-0c-cc-00-00-00"
  }
}

```

Example 2: Change the value of VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/FingerPrintOfApgroup?index=ApGroupName%3Dgroup1

```

{
  "ApGroupName": "group1",
  "VendorPort": 1
}

```

JSON Response

204 No Content

WLOC/CommonConfOfApgroup

This table contains CommonConf of APGroup protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	APGroup Name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 to 1300000.	Zero means inherited.

ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 80 to 130000000.	Optional parameter Zero means inherited.
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 0 to 10000.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 0 to 60.	DilutionFactor and DilutionTimeout must set together. Zero means inherited.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 0 or 8 to 1300000.	Zero means inherited.
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 0 or 500 to 130000000.	Optional parameter Zero means inherited.
RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 0 or 5 to 100.	Zero means inherited.
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: 1—enable 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CommonConfOfApgroup

JSON Response

200 OK

```
{ "CommonConfOfApgroup": [
  {
    "ApGroupName": "default-group",
    "ClientRateLimitStatus": 0,
    "ClientRateLimitCir": 100,
    "ClientRateLimitCbs": 80,
    "DilutionStatus": 0,
    "DilutionFactor": 0,
    "DilutionTimeout": 0,
    "IgnoreBeaconStatus": 0,
    "RateLimitStatus": 0,
    "RateLimitCir": 8,
    "RateLimitCbs": 500,
    "RssiStatus": 0,
    "RssiThreshold": 0,
    "IgnoreApFrameStatus": 0,
    "KeepAliveStatus": 1
  },
  {
    "ApGroupName": "group1",
    "ClientRateLimitStatus": 0,
    "ClientRateLimitCir": 0,
    "ClientRateLimitCbs": 0,
    "DilutionStatus": 0,
    "DilutionFactor": 0,
    "DilutionTimeout": 0,
    "IgnoreBeaconStatus": 0,
    "RateLimitStatus": 0,
    "RateLimitCir": 0,
    "RateLimitCbs": 0,
    "RssiStatus": 0,
    "RssiThreshold": 0,
    "IgnoreApFrameStatus": 0,
    "KeepAliveStatus": 0
  }
]
```



```
}}
```

Example 2: Change the value of ClientRateLimitStatus for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CommonConfOfApgroup?index=ApGroupName%3Dgroup1

```
{
  "ApGroupName": " group1",
  "ClientRateLimitStatus": 2
}
```

JSON Response

204 No Content

WLOC/AeroScoutOfGlobal

This table contains AeroScout of Global protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the AeroScout protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: 2—V2(default) 3—V3	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: 1—static 2—dynamic(default)	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A

TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: • 1—absolute • 2—relative(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 2—central	N/A
MulticastAddress	MACAddress of tag multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/AeroScoutOfGlobal

JSON Response

200 OK

```
{
  "Status": 2,
  "VersionID": 2,
  "EngineDetectionMode": 2,
  "EngineAddress": "1.1.1.1",
  "EnginePort": 0,
  "VendorPort": 1144,
  "TimeStamp": 2,
  "ReportMode": 1,
  "MulticastAddress": "01-0c-cc-00-00-00"
}
```

Example 2: Change the value of Status and ReportMode for the assigned instance.

JSON Request

PUT /api/v1/WLOC/AeroScoutOfGlobal

```
{
  "Status": 1,
  "ReportMode": 1
}
```

JSON Response

WLOC/BLEOfGlobal

This table contains BLE of Global protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the BLE protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A
AgingTime	Specify a neighbour aging time for BLE location	N/A	Unsigned integer Value range: 60 to 3600.	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportStatus	Specify the status of neighbor list report	N/A	Enumeration: 1—enable 2—disable(default)	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 86400.	N/A
RssiThresholdStatus	Specify the Rssi-Threshold status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RssiThreshold	Limit the RSSI of locating packets	N/A	Unsigned integer. Value range: 5 to 255.	N/A
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
CmdPasswdSimple	Specify the simple Command password	N/A	String. Length: 12	N/A
CmdPasswdCipher	Specify the cipher Command password	N/A	String. Length: 49	N/A
RealTimeReportStatus	Specify the status of Real-time	N/A	Enumeration: 1—enable 2—disable(default)	N/A

	wireless locating			
RealTimeReportPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeReportInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 30	N/A
RealTimeReportEngineAddress	Specify the locating server IP address to which the AP sends packets, this column must configure with EnginePort	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
RealTimeReportEnginePort	Specify the locating server port to which the AP sends packets, this column must configure with EngineAddress	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general 2—lightweight	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/BLEOfGlobal

JSON Response

200 OK

```
{
  "Status": 2,
  "AgingTime": 180,
  "EngineAddress": "0.0.0.0",
  "EnginePort": 0,
  "RealTimeReportStatus": 2,
  "ReportStatus": 2,
  "ReportInterval": 900,
```

```

    "RssiThresholdStatus": 2,
    "RssiThreshold": 5,
    "VendorPort": 1144,
    "CmdPasswdSimple": "aaaaaaaaaaaa",
    "CmdPasswdCipher": "bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb",
    "RealTimeReportPrefix": "000000ff ",
    "RealTimeReportInterval": 5,
    "RealTimeReportEngineAddress": "1.1.1.2",
    "RealTimeReportEnginePort": 1146,
    "ReportMode": 1,
    "ReportFormat": 1
}

```

Example 2: Change the value of Status and VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/BLEOfGlobal

```

{
    "Status": 2,
    "VendorPort": 1154
}

```

JSON Response

204 No Content

WLOC/CUPIDOfGlobal

This table contains CUPID of Global protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the Cupid protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server	N/A	Unsigned integer.	EngineAddress and EnginePort must set

	port to which the AP sends packets		Value range: 1 to 65535.	together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
ReportStatus	Specify the status of client list report	N/A	Enumeration: 1—enable 2—disable(default)	N/A
ReportInterval	Set the interval for sending client list report	N/A	Unsigned integer. Value range: 1 to 10.	N/A
UnassociateReportStatus	Unassociated report to the server	N/A	Enumeration: 1—enable 2—disable(default)	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: 1—enable(default) 2—disable	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: 1—local(default) 2—central	N/A
ReportFormat	Frame format	N/A	Enumeration: 1—general(default) 2—lightweight	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: 1—enable 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CUPIDOfGlobal

JSON Response

200 OK

```
{
  "Status": 2,
  "EngineAddress": "0.0.0.0",
  "EnginePort": 0,
  "VendorPort": 1144,
  "ReportStatus": 2,
  "ReportInterval": 1,
  "UnassociateStatus": 2,
```

```

    "UnassoMeasStatus": 1,
    "ReportMode": 1,
    "ReportFormat": 1
    "LocalCalculate": 1
}

```

Example 2: Change the value of Status and VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CUPIDOfGlobal

```

{
    "Status": 2,
    "VendorPort": 1150
}

```

JSON Response

204 No Content

WLOC/FingerPrintOfGlobal

This table contains FingerPrint of Global protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Wireless locating through the FingerPrint protocol	N/A	Enumeration: 1—enable 2—disable(default)	N/A
EngineAddress	Specify the locating server IP address	N/A	String, dotted decimal notation.	EngineAddress and EnginePort must set together. Example: 1.1.1.1.
EnginePort	Specify the locating server port to which the AP sends packets	N/A	Unsigned integer. Value range: 1 to 65535.	EngineAddress and EnginePort must set together.
VendorPort	Specify an AP port for the locating server vendor	N/A	Unsigned integer. Value range: 1 to 65535. Default:1144	N/A
RawFrameStatus	Specify the status of report raw frame	N/A	Enumeration: 1—enable	N/A

	information		• 2—disable(default)	
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: • 1—local(default) • 1—central	N/A
ReportFormat	Frame format	N/A	Enumeration: • 1—general(default) • 2—lightweight • 3—cupid-hybrid	N/A
MulticastAddress	MACAddress of tag Multicast	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 01-34-ED-66-89-23.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/FingerPrintOfGlobal

JSON Response

200 OK

```
{
  "Status": 2,
  "EngineAddress": "1.1.1.1",
  "EnginePort": 0,
  "VendorPort": 1144,
  "RawFrameStatus": 2,
  "MuReportStatus": 2,
  "ReportMode": 1,
  "ReportFormat": 1,
  "MulticastAddress": "01-0c-cc-00-00-00"
}
```

Example 2: Change the value of Status and VendorPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/FingerPrintOfGlobal


```
{
  "Status": 2,
  "VendorPort": 1178
}
```

JSON Response

204 No Content

WLOC/CommonConfOfGlobal

This table contains CommonConf of Global protocol related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientRateLimitStatus	Limit the rate for clients to send locating packets to the AP status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
ClientRateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 1 to 1300000.	N/A
ClientRateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 80 to 130000000.	Optional parameter
DilutionStatus	Configure dilution for locating packets	N/A	Enumeration: 1—enable 2—disable(default)	N/A
DilutionFactor	Configure the dilution factor	N/A	Unsigned integer. Value range: 1 to 10000.	DilutionFactor and DilutionTimeout must set together.
DilutionTimeout	Configure the dilution timeout	N/A	Unsigned integer. Value range: 1 to 60.	DilutionFactor and DilutionTimeout must set together.
IgnoreBeaconStatus	Ignore beacon frames	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: 1—enable 2—disable(default)	N/A
RateLimitCir	Configure the committed information rate	N/A	Unsigned integer. Value range: 8 to 1300000.	N/A
RateLimitCbs	Configure the committed burst size	N/A	Unsigned integer. Value range: 500 to 130000000.	Optional parameter

RssiStatus	Specify the Rssi-Threshold status	N/A	Enumeration: • 1—enable • 2—disable(default)	N/A
RssiThreshold	Set the RSSI threshold	N/A	Unsigned integer. Value range: 5 to 100. Default:5.	N/A
IgnoreApFrameStatus	Ignore AP frames	N/A	Enumeration: • 0—inherit • 1—enable • 2—disable	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: • 1—enable • 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/CommonConfOfGlobal

JSON Response

200 OK

```
{
  "ClientRateLimitStatus": 2,
  "ClientRateLimitCir": 0,
  "ClientRateLimitCbs": 0,
  "DilutionStatus": 2,
  "DilutionFactor": 0,
  "DilutionTimeout": 0,
  "IgnoreBeaconStatus": 2,
  "RateLimitStatus": 2,
  "RateLimitCir": 0,
  "RateLimitCbs": 0,
  "RssiStatus": 2,
  "RssiThreshold": 5,
  "IgnoreApFrameStatus": 2,
  "KeepAliveStatus": 2
}
```

Example 2: Change the value of RssiStatus and RssiThreshold for the assigned instance.

JSON Request

PUT /api/v1/WLOC/CommonConfOfGlobal

```
{
  "RssiStatus": 1,
  "RssiThreshold": 10
}
```

JSON Response

204 No Content

WLOC/RadioConf

This table contains Radio related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP Name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: 0—inherit 2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: 0—inherit 1—tag	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/RadioConf

JSON Response

200 OK

```

{"RadioConf": [
  {
    "ApName": "ap1",
    "RadioID": 1,
    "RadioStatus": 0,
    "ModeMu": 0,
    "ModeTag": 0
  },
  {
    "ApName": "ap1",
    "RadioID": 2,
    "RadioStatus": 0,
    "ModeMu": 0,
    "ModeTag": 0
  },
  {
    "ApName": "ap2",
    "RadioID": 1,
    "RadioStatus": 0,
    "ModeMu": 0,
    "ModeTag": 0
  },
  {
    "ApName": "ap2",
    "RadioID": 2,
    "RadioStatus": 0,
    "ModeMu": 0,
    "ModeTag": 0
  }
]}

```

Example 2: Change the value ModeMu for the assigned instance.

JSON Request

PUT /api/v1/WLOC/RadioConf?index=ApName%3Dap1%3BRadioID%3D1

```

{
  "ApName": "ap1",
  "RadioID": 1,

```

```
"ModeMu": 2
}
```

JSON Response

204 No Content

WLOC/RadioConfOfApgroup

This table contains Radio of Apgroup related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	Configure an AP group	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ApModelName	Specify an AP model and enter AP model view	Index	String, lowercase. Length: 1 to 31 characters.	N/A
RadioID	Radio ID	Index	Unsigned integer. Value range: 1 to 2.	N/A
RadioStatus	Radio status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: 0—disable(default) 1—enable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: 0—disable(default) 2—enable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/RadioConfOfApgroup

JSON Response

200 OK

```
{"RadioConfOfApgroup": [
  {
    "ApGroupName": "group1",
    "ApModelName": "WA4320i-ACN",
```

```

    "RadioID": 1,
    "RadioStatus": 2,
    "ModeMu": 0,
    "ModeTag": 0
  },
  {
    "ApGroupName": "group1",
    "ApModelName": "WA4320i-ACN",
    "RadioID": 2,
    "RadioStatus": 2,
    "ModeMu": 0,
    "ModeTag": 0
  }
]}

```

Example 2: Change the value ModeMu for the assigned instance.

JSON Request

PUT

/api/v1/WLOC/RadioConfOfApgroup?index=ApGroupName%3Dgroup1%3BApModelName%3DWA4320i-ACN%3BRadioID%3D1

```

{
  "ApGroupName": "group1",
  "ApModelName": "WA4320i-ACN",
  "RadioID": 1,
  "ModeMu": 2
}

```

JSON Response

204 No Content

WLOC/ModuleConf

This table contains Module of AP related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive.	N/A

			Length: 1 to 64 characters.	
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
Type	Specify a module type	N/A	Enumeration: 0—inherit 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:0 to 4.	If it is 0, it means inherited
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/ModuleConf

JSON Response

200 OK

```
{
  "ModuleConf": [
    {
      "ApName": "ap1",
      "ModuleID": 1,
      "ModuleStatus": 0,
      "Type": 0,
      "TxPower": 0,
      "FwUpgrade": 0
    },
    {
      "ApName": "ap1",
      "ModuleID": 2,
      "ModuleStatus": 0,
      "Type": 0,

```

```

    "TxPower": 0,
    "FwUpgrade": 0
  },
  {
    "ApName": "ap1",
    "ModuleID": 3,
    "ModuleStatus": 0,
    "Type": 0,
    "TxPower": 0,
    "FwUpgrade": 0
  },
  {
    "ApName": "ap2",
    "ModuleID": 1,
    "ModuleStatus": 0,
    "Type": 0,
    "TxPower": 0,
    "FwUpgrade": 0
  },
  {
    "ApName": "ap2",
    "ModuleID": 2,
    "ModuleStatus": 0,
    "Type": 0,
    "TxPower": 0,
    "FwUpgrade": 0
  },
  {
    "ApName": "ap2",
    "ModuleID": 3,
    "ModuleStatus": 0,
    "Type": 0,
    "TxPower": 0,
    "FwUpgrade": 0
  }
}

```

Example 2: Change the value of FwUpgrade for the assigned instance.

JSON Request

PUT /api/v1/WLOC/ModuleConf?index=ApName%3Dap1%3BModuleID%3D1

```
{
  "ApName": "ap1",
  "ModuleID": 1,
  "FwUpgrade": 2
}
```

JSON Response

204 No Content

WLOC/ModuleConfOfApgroup

This table contains Module of AP group related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
ModuleStatus	AP module status	N/A	Enumeration: 1—enable 2—disable(default)	N/A
Type	Specify a module type	N/A	Enumeration: 0—NotConfig(default) 1—BLE 2—IOT	N/A
TxPower	Specify a power for sending advertisement reports	N/A	Unsigned integer. Value range:1 to 4. Default:1.	N/A
FwUpgrade	Specify the firmware upgrade status for this module	N/A	Enumeration: 1—enable 2—disable(default)	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/ModuleConfOfApgroup

JSON Response

200 OK

```
{
  "ModuleConfOfApgroup": [
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 1,
      "ModuleStatus": 2,
      "Type": 0,
      "TxPower": 1,
      "FwUpgrade": 2
    },
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 2,
      "ModuleStatus": 2,
      "Type": 0,
      "TxPower": 1,
      "FwUpgrade": 2
    },
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 3,
      "ModuleStatus": 2,
      "Type": 0,
      "TxPower": 1,
      "FwUpgrade": 2
    }
  ]
}
```

Example 2: Change the value of FwUpgrade for the assigned instance.

JSON Request

PUT

/api/v1/WLOC/ModuleConfOfApgroup?index=ApGroupName%3Dg1%3BApModelName%3DWA4320i-X-R%3BModuleID%3D1

```
{
  "ApGroupName": "g1",
  "ApModelName": "WA4320i-X-R",
  "ModuleID": 1,
  "FwUpgrade": 1
}
```

JSON Response

204 No Content

WLOC/BLEModuleConf

This table contains Module of AP related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
Advertisemen tStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 0—inherit 1—enable 2—disable	N/A
Advertisemen tInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 0 or 50 to 1000.	Interval value in centiseconds, in steps of 10
Advertisemen tUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A
Advertisemen tMajorID	Specify the major identifier for sending advertisement	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A

	reports			
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default: 4294967295	N/A
AdvertisementMeaPower	Specify the measure power in the BLE advertisements	N/A	Unsigned integer. Value range: 0 to 127.	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/BLEModuleConf

JSON Response

200 OK

```
{
  "BLEModuleConf": [
    {
      "ApName": "ap1",
      "ModuleID": 1,
      "AdvertisementStatus": 0,
      "AdvertisementInterval": 0,
      "AdvertisementUUID": "",
      "AdvertisementMajorID": 4294967295,
      "AdvertisementMinorID": 4294967295,
      "AdvertisementMeaPower": 255
    },
    {
      "ApName": "ap1",
      "ModuleID": 2,
      "AdvertisementStatus": 0,
      "AdvertisementInterval": 0,
      "AdvertisementUUID": "",
      "AdvertisementMajorID": 4294967295,
      "AdvertisementMinorID": 4294967295,
      "AdvertisementMeaPower": 255
    },
    {

```

```

    "ApName": "ap1",
    "ModuleID": 3,
    "AdvertisementStatus": 0,
    "AdvertisementInterval": 0,
    "AdvertisementUUID": "",
    "AdvertisementMajorID": 4294967295,
    "AdvertisementMinorID": 4294967295,
    "AdvertisementMeaPower": 255
  },
  {
    "ApName": "ap2",
    "ModuleID": 1,
    "AdvertisementStatus": 0,
    "AdvertisementInterval": 0,
    "AdvertisementUUID": "",
    "AdvertisementMajorID": 4294967295,
    "AdvertisementMinorID": 4294967295,
    "AdvertisementMeaPower": 255
  },
  {
    "ApName": "ap2",
    "ModuleID": 2,
    "AdvertisementStatus": 0,
    "AdvertisementInterval": 0,
    "AdvertisementUUID": "",
    "AdvertisementMajorID": 4294967295,
    "AdvertisementMinorID": 4294967295,
    "AdvertisementMeaPower": 255
  },
  {
    "ApName": "ap2",
    "ModuleID": 3,
    "AdvertisementStatus": 0,
    "AdvertisementInterval": 0,
    "AdvertisementUUID": "",
    "AdvertisementMajorID": 4294967295,
    "AdvertisementMinorID": 4294967295,
    "AdvertisementMeaPower": 255
  }
}

```

```
}}
```

Example 2: Change the value of AdvertisementStatus for the assigned instance.

JSON Request

PUT /api/v1/WLOC/BLEModuleConf?index=ApName%3Dap1%3BModuleID%3D1

```
{
  "ApName": "ap1",
  "ModuleID": 1,
  "AdvertisementStatus": 1
}
```

JSON Response

204 No Content

WLOC/BLEModuleConfOfApgroup

This table contains Module of AP group related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A
ApModelName	AP model	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ModuleID	Module ID	Index	Unsigned integer. Value range: 1 to 5.	N/A
AdvertisementStatus	Specify the Advertisement transmit by the BLE module	N/A	Enumeration: 1—enable 2—disable(default)	N/A
AdvertisementInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 50 to 1000. Default:100.	Interval value in centiseconds, in steps of 10
AdvertisementUUID	Specify the universally unique identifier for sending advertisement reports	N/A	String. Length:32.	N/A

AdvertisementMajorID	Specify the major identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default: 1	N/A
AdvertisementMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535. Default: 1	N/A

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/BLEModuleConfOfApgroup

JSON Response

200 OK

```
{
  "BLEModuleConfOfApgroup": [
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 1,
      "AdvertisementStatus": 2,
      "AdvertisementInterval": 100,
      "AdvertisementUUID": "",
      "AdvertisementMajorID": 1,
      "AdvertisementMinorID": 1,
      "AdvertisementMeaPower": 58
    },
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 2,
      "AdvertisementStatus": 2,
      "AdvertisementInterval": 100,
      "AdvertisementUUID": "",
      "AdvertisementMajorID": 1,
      "AdvertisementMinorID": 1,
      "AdvertisementMeaPower": 58
    }
  ]
}
```

```

    },
    {
      "ApGroupName": "g1",
      "ApModelName": "WA4320i-X-R",
      "ModuleID": 3,
      "AdvertisementStatus": 2,
      "AdvertisementInterval": 100,
      "AdvertisementUUID": "",
      "AdvertisementMajorID": 1,
      "AdvertisementMinorID": 1,
      "AdvertisementMeaPower": 58
    }
  ]
}

```

Example 2: Change the value of AdvertisementStatus for the assigned instance.

JSON Request

PUT

/api/v1/WLOC/BLEModuleConfOfApgroup?index=ApGroupName%3Dg1%3BApModelName%3DWA4320i-X-R%3BModuleID%3D1

```

{
  "ApGroupName": "g1",
  "ApModelName": "WA4320i-X-R",
  "ModuleID": 1,
  "AdvertisementStatus": 2
}

```

JSON Response

204 No Content

WLOC/IOTConf

This table contains IOT server of AP related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, case-insensitive. Length: 1 to 64 characters.	N/A

IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/IOTConf

JSON Response

200 OK

```
{
  "IOTConf": [
    {
      "ApName": "ap1",
      "IOTAddress": "0.0.0.0",
      "IOTPort": 0
    },
    {
      "ApName": "ap2",
      "IOTAddress": "0.0.0.0",
      "IOTPort": 0
    }
  ]
}
```

Example 2: Change the value of IOTAddress and IOTPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/IOTConf?index=ApName%3Dap1

```
{
  "ApName": "ap1",
  "IOTAddress": "1.1.1.1",
  "IOTPort": 456
}
```

JSON Response

204 No Content

WLOC/IOTConfOfApgroup

This table contains IOT server of AP group related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
APGroupName	AP group name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1. If it is 0, it means inherited
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 0 to 65535.	IOTAddress and IOTPort must set together. If it is 0, it means inherited

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/IOTConfOfApgroup

JSON Response

200 OK

```
{"IOTConfOfApgroup": [  
  {  
    "ApGroupName": "default-group",  
    "IOTAddress": "0.0.0.0",  
    "IOTPort": 0  
  },  
  {  
    "ApGroupName": "g1",  
    "IOTAddress": "0.0.0.0",  
    "IOTPort": 0  
  }  
]}
```

```

    },
    {
      "ApGroupName": "group1",
      "IOTAddress": "1.1.1.1",
      "IOTPort": 456
    }
  ]
}

```

Example 2: Change the value of IOTAddress and IOTPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/IOTConfOfApgroup?index=ApGroupName%3Dgroup1

```

{
  "ApGroupName": "group1",
  "IOTAddress": "1.1.1.1",
  "IOTPort": 456
}

```

JSON Response

204 No Content

WLOC/IOTConfOfGlobal

This table contains IOT server of global related parameters information.

Properties

Column name	Column description	Column type	Data type and restrictions	Remarks
IOTAddress	IP Address of IOTserver	N/A	String, dotted decimal notation.	IOTAddress and IOTPort must set together. Example: 1.1.1.1.
IOTPort	PortNum of IOT server	N/A	Unsigned integer. Value range: 1 to 65535.	IOTAddress and IOTPort must set together.

Example

Example 1: Get data from resource table.

JSON Request

GET /api/v1/WLOC/IOTConfOfGlobal

JSON Response

200 OK

```
{  
  "IOTAddress": "0.0.0.0",  
  "IOTPort": 0  
}
```

Example 2: Change the value of IOTAddress and IOTPort for the assigned instance.

JSON Request

PUT /api/v1/WLOC/IOTConfOfGlobal

```
{  
  "IOTAddress": "4.4.4.4",  
  "IOTPort": 1567  
}
```

JSON Response

204 No Content

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NETCONF XML API Reference



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NETCONF XML API Reference